

o. PROF. DR.-ING. DR.-ING. E. h. KARL KORDINA
 Institut für Baustoffe, Massivbau und Brandschutz
 Lehrstuhl für Massivbau

TECHNISCHE UNIVERSITÄT
 BRAUNSCHWEIG

Anhang zum Abschlußbericht über
 Untersuchungen zur

Rißbildung von Segmentbauteilen in Abhängig-
 keit von Querschnittsausbildung und Spann-
 stahlverbundeigenschaften

- Zusammenfassende Wiedergabe der Meßdaten -

von

o. Prof. Dr.-Ing. Dr.-Ing. E. h. K. Kordina

und

Dr.-Ing. V. Weber

B I B L I O T H E K
 Institut für Baustoffe, Massivbau und Brandschutz
 der Technischen Universität Braunschweig
 Beethovenstraße 52
 D-3300 Braunschweig

Braunschweig, Dezember 1982

Gefördert mit Forschungsmitteln des Deutschen
 Ausschusses für Stahlbeton (Az.: N VII V210)

VERSUCHSBALKEN R1

GEMESSENE DURCHBIEGUNGEN IN MM

| * LASTSTUFE | * P | * M | * MESZSTELLE | * 2 | * 3 | * 4 | * 5 | * 6 | * 7 | * 8 | * 9 | * 10 |
|-------------|-------|-------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| * KN | * IN | * KNM | | | | | | | | | | |
| 1 | 0,0 | 0,0 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 |
| 2 | 20,0 | 25,0 | 0,500 | 0,725 | 0,805 | 0,840 | 0,855 | 0,870 | 0,810 | 0,821 | 0,821 | 0,821 |
| 3 | 40,0 | 50,0 | 1,060 | 1,510 | 1,665 | 1,735 | 1,755 | 1,780 | 1,650 | 1,647 | 1,647 | 1,647 |
| 4 | 60,0 | 75,0 | 1,490 | 2,205 | 2,450 | 2,565 | 2,600 | 2,655 | 2,465 | 2,465 | 2,465 | 2,465 |
| 5 | 60,0 | 75,0 | 1,255 | 1,730 | 1,900 | 1,985 | 2,020 | 2,100 | 1,995 | 1,995 | 1,995 | 1,995 |
| 6 | 80,0 | 100,0 | 1,695 | 2,365 | 2,590 | 2,705 | 2,730 | 2,800 | 2,620 | 2,620 | 2,620 | 2,620 |
| 7 | 90,0 | 112,5 | 1,880 | 2,670 | 2,935 | 3,060 | 3,090 | 3,155 | 2,940 | 2,940 | 2,940 | 2,940 |
| 8 | 95,0 | 118,8 | 2,025 | 2,890 | 3,180 | 3,350 | 3,365 | 3,445 | 3,180 | 3,180 | 3,180 | 3,180 |
| 9 | 100,0 | 125,0 | 2,130 | 3,060 | 3,370 | 3,550 | 3,560 | 3,650 | 3,365 | 3,365 | 3,365 | 3,365 |
| 10 | 105,0 | 131,3 | 2,240 | 3,240 | 3,580 | 3,760 | 3,780 | 3,870 | 3,565 | 3,565 | 3,565 | 3,565 |
| 11 | 110,0 | 137,5 | 2,340 | 3,415 | 3,780 | 3,970 | 3,985 | 4,080 | 3,750 | 3,750 | 3,750 | 3,750 |
| 12 | 115,0 | 143,8 | 2,485 | 3,625 | 4,015 | 4,215 | 4,235 | 4,275 | 3,955 | 3,955 | 3,955 | 3,955 |
| 13 | 120,0 | 150,0 | 2,630 | 3,875 | 4,305 | 4,525 | 4,545 | 4,605 | 4,255 | 4,255 | 4,255 | 4,255 |
| 14 | 120,0 | 150,0 | 2,700 | 3,980 | 4,420 | 4,640 | 4,665 | 4,730 | 4,365 | 4,365 | 4,365 | 4,365 |
| 15 | 125,0 | 156,3 | 2,790 | 4,145 | 4,610 | 4,855 | 4,880 | 4,930 | 4,555 | 4,555 | 4,555 | 4,555 |
| 16 | 130,0 | 162,5 | 2,895 | 4,335 | 4,835 | 5,100 | 5,140 | 5,165 | 4,755 | 4,755 | 4,755 | 4,755 |
| 17 | 135,0 | 168,8 | 3,020 | 4,570 | 5,105 | 5,390 | 5,420 | 5,450 | 4,995 | 4,995 | 4,995 | 4,995 |
| 18 | 140,0 | 175,0 | 3,170 | 4,845 | 5,435 | 5,790 | 5,770 | 5,795 | 5,280 | 5,280 | 5,280 | 5,280 |
| 19 | 145,0 | 181,3 | 3,350 | 5,195 | 5,840 | 6,220 | 6,210 | 6,295 | 5,640 | 5,640 | 5,640 | 5,640 |
| 20 | 0,0 | 0,0 | 0,310 | -0,070 | -0,230 | -0,290 | -0,310 | -0,135 | 0,100 | 0,100 | 0,100 | 0,100 |
| 21 | 0,0 | 0,0 | 0,300 | -0,185 | -0,360 | -0,465 | -0,485 | -0,215 | 0,015 | 0,015 | 0,015 | 0,015 |
| 22 | 60,0 | 75,0 | 1,985 | 2,530 | 2,800 | 2,925 | 2,940 | 3,110 | 2,920 | 2,920 | 2,920 | 2,920 |
| 23 | 90,0 | 112,5 | 2,470 | 3,380 | 3,760 | 3,930 | 3,955 | 4,105 | 3,800 | 3,800 | 3,800 | 3,800 |
| 24 | 0,0 | 0,0 | 0,230 | -0,315 | -0,495 | -0,620 | -0,640 | -0,355 | -0,075 | -0,075 | -0,075 | -0,075 |
| 25 | 60,0 | 75,0 | 1,970 | 2,505 | 2,770 | 2,890 | 2,915 | 3,080 | 2,915 | 2,915 | 2,915 | 2,915 |

VERSUCHSBALKEN R1

GEMESSENE DURCHBIEGUNGEN IN MM

| * LASTSTUFE | * P | * M | * MESZSTELLE | | | | | | | | | |
|-------------|---------|-------|--------------|-------|--------|--------|--------|--------|-------|-------|---|--|
| * IN | * IN | * IN | | | | | | | | | | |
| * KN | * KNM | * KNM | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | |
| 26 | * 90.0 | 112.5 | * 2.470 | 3.385 | 3.760 | 3.900 | 3.970 | 4.110 | 3.825 | 3.101 | * | |
| 27 | * 100.0 | 125.0 | * 2.630 | 3.680 | 4.100 | 4.300 | 4.330 | 4.460 | 4.135 | 3.273 | * | |
| 28 | * 110.0 | 137.5 | * 2.820 | 4.010 | 4.475 | 4.715 | 4.720 | 4.830 | 4.465 | 3.429 | * | |
| 29 | * 120.0 | 150.0 | * 3.020 | 4.375 | 4.880 | 5.050 | 5.150 | 5.295 | 4.840 | 3.616 | * | |
| 30 | * 130.0 | 162.5 | * 3.260 | 4.815 | 5.405 | 5.580 | 5.680 | 5.835 | 5.285 | 3.838 | * | |
| 31 | * 145.0 | 181.3 | * 3.620 | 5.500 | 6.210 | 6.465 | 6.545 | 6.655 | 6.000 | 4.207 | * | |
| 32 | * 150.0 | 187.5 | * 3.890 | 5.970 | 6.730 | 7.040 | 7.100 | 7.210 | 6.725 | 4.495 | * | |
| 33 | * 155.0 | 193.8 | * 4.140 | 6.455 | 7.310 | 7.645 | 7.700 | 7.805 | 7.205 | 4.742 | * | |
| 34 | * 160.0 | 200.0 | * 4.430 | 7.030 | 7.945 | 8.330 | 8.410 | 8.590 | 7.775 | 5.000 | * | |
| 35 | * 165.0 | 206.3 | * 4.645 | 7.620 | 8.620 | 9.050 | 9.150 | 9.240 | 8.320 | 5.278 | * | |
| 36 | * 170.0 | 212.5 | * 5.000 | 8.270 | 9.390 | 9.845 | 9.940 | 10.155 | 8.965 | 5.581 | * | |
| 37 | * 175.0 | 218.8 | * 5.345 | 9.005 | 10.240 | 10.750 | 10.840 | 11.060 | 9.750 | 5.939 | * | |

VERSUCHSBALKEN R1

GEMESSENE FUGENSPALTBREITEN IN MM

* * * *

* P M MESZSTELLE *

* LASTSTUFE * IN IN * *

* KN KNM 10 *

* 1 * 0,0 0,0 * 0,000 *

* 2 * 20,0 25,0 * 0,006 *

* 3 * 40,0 50,0 * 0,013 *

* 4 * 60,0 75,0 * 0,023 *

* 5 * 80,0 75,0 * 0,019 *

* 6 * 80,0 100,0 * 0,029 *

* 7 * 90,0 112,5 * 0,037 *

* 8 * 95,0 118,8 * 0,042 *

* 9 * 100,0 125,0 * 0,049 *

* 10 * 105,0 131,3 * 0,058 *

* 11 * 110,0 137,5 * 0,071 *

* 12 * 115,0 143,8 * 0,088 *

* 13 * 120,0 150,0 * 0,111 *

* 14 * 120,0 150,0 * 0,113 *

* 15 * 125,0 150,3 * 0,139 *

* 16 * 130,0 162,5 * 0,173 *

* 17 * 135,0 168,8 * 0,210 *

* 18 * 140,0 175,0 * 0,254 *

* 19 * 145,0 181,3 * 0,302 *

* 20 * 0,0 0,0 * -0,024 *

* 21 * 0,0 0,0 * -0,031 *

* 22 * 60,0 75,0 * 0,015 *

* 23 * 90,0 112,5 * 0,040 *

* 24 * 0,0 0,0 * -0,034 *

* 25 * 60,0 75,0 * 0,014 *

VERSUCHSBALKEN R1

GEMESSENE FUGENSPALTBREITEN IN MM

* * * *

* P M *MESSSTELLE*

* LASTSTUFE * IN IN *

* KN KN1 * 10 *

* 26 *90.0 112.5 * 0.040 *

* 27 *100.0 125.0 * 0.060 *

* 28 *110.0 137.5 * 0.092 *

* 29 *120.0 150.0 * 0.140 *

* 30 *130.0 162.5 * 0.207 *

* 31 *145.0 181.3 * 0.323 *

* 32 *150.0 187.5 * 0.371 *

* 33 *155.0 193.8 * 0.428 *

* 34 *160.0 200.0 * 0.491 *

* 35 *165.0 206.3 * 0.552 *

* 36 *170.0 212.5 * 0.623 *

* 37 *175.0 218.8 * 0.700 *

VERSUCHSBALKEN R1

GEMESSENE SPANNSTAHLDEHNUNGEN IN MM/M

| ★ | ★ | ★ | ★ | ★ | ★ | ★ | ★ | ★ | ★ |
|---|----|---------|-------|---|------------|--------|--------|--------|-------|
| ★ | ★ | P | M | ★ | MESZSTELLE | | | | ★ |
| ★ | ★ | IN | IN | ★ | | | | | ★ |
| ★ | ★ | KN | KNM | ★ | 11 | 12 | 13 | 14 | 15 |
| ★ | ★ | ★ | ★ | ★ | ★ | ★ | ★ | ★ | ★ |
| ★ | 1 | ★ 0,0 | 0,0 | ★ | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 |
| ★ | 2 | ★ 20,0 | 25,0 | ★ | 0,047 | 0,055 | 0,058 | 0,060 | 0,056 |
| ★ | 3 | ★ 40,0 | 50,0 | ★ | 0,098 | 0,114 | 0,120 | 0,122 | 0,113 |
| ★ | 4 | ★ 60,0 | 75,0 | ★ | 0,150 | 0,175 | 0,183 | 0,180 | 0,172 |
| ★ | 5 | ★ 60,0 | 75,0 | ★ | 0,139 | 0,160 | 0,174 | 0,174 | 0,158 |
| ★ | 6 | ★ 80,0 | 100,0 | ★ | 0,183 | 0,220 | 0,235 | 0,228 | 0,218 |
| ★ | 7 | ★ 90,0 | 112,5 | ★ | 0,204 | 0,260 | 0,273 | 0,269 | 0,251 |
| ★ | 8 | ★ 95,0 | 118,8 | ★ | 0,230 | 0,281 | 0,299 | 0,293 | 0,271 |
| ★ | 9 | ★ 100,0 | 125,0 | ★ | 0,247 | 0,298 | 0,322 | 0,312 | 0,290 |
| ★ | 10 | ★ 105,0 | 131,3 | ★ | 0,264 | 0,323 | 0,351 | 0,344 | 0,314 |
| ★ | 11 | ★ 110,0 | 137,5 | ★ | 0,278 | 0,338 | 0,383 | 0,361 | 0,330 |
| ★ | 12 | ★ 115,0 | 143,8 | ★ | 0,292 | 0,358 | 0,424 | 0,378 | 0,349 |
| ★ | 13 | ★ 120,0 | 150,0 | ★ | 0,308 | 0,380 | 0,479 | 0,400 | 0,376 |
| ★ | 14 | ★ 120,0 | 150,0 | ★ | 0,316 | 0,391 | 0,487 | 0,415 | 0,386 |
| ★ | 15 | ★ 125,0 | 156,3 | ★ | 0,331 | 0,406 | 0,548 | 0,432 | 0,409 |
| ★ | 16 | ★ 130,0 | 162,5 | ★ | 0,352 | 0,427 | 0,622 | 0,460 | 0,437 |
| ★ | 17 | ★ 135,0 | 168,8 | ★ | 0,372 | 0,457 | 0,707 | 0,500 | 0,468 |
| ★ | 18 | ★ 140,0 | 175,0 | ★ | 0,394 | 0,499 | 0,798 | 0,553 | 0,504 |
| ★ | 19 | ★ 145,0 | 181,3 | ★ | 0,441 | 0,576 | 0,903 | 0,635 | 0,566 |
| ★ | 20 | ★ 0,0 | 0,0 | ★ | 0,031 | 0,031 | -0,044 | 0,037 | 0,048 |
| ★ | 21 | ★ 0,0 | 0,0 | ★ | 0,002 | 0,001 | -0,078 | -0,006 | 0,006 |
| ★ | 22 | ★ 60,0 | 75,0 | ★ | 0,149 | 0,181 | 0,193 | 0,197 | 0,180 |
| ★ | 23 | ★ 90,0 | 112,5 | ★ | 0,234 | 0,287 | 0,302 | 0,305 | 0,283 |
| ★ | 24 | ★ 0,0 | 0,0 | ★ | -0,002 | -0,006 | -0,091 | -0,014 | 0,001 |
| ★ | 25 | ★ 60,0 | 75,0 | ★ | 0,148 | 0,179 | 0,190 | 0,198 | 0,179 |

VERSUCHSBALKEN R1

GEMESSENE SPANNSTAHLDEHNUNGEN IN MM/M

* * * *

* * P M * MESZSTELLE *

* LASTSTUFE * IN IN * *

* * KN KNM * 11 12 13 14 15 *

* 26 * 90,0 112,5 * 0,237 0,278 0,303 0,305 0,286 *

* 27 * 100,0 125,0 * 0,267 0,328 0,344 0,347 0,326 *

* 28 * 110,0 137,5 * 0,314 0,386 0,418 0,411 0,384 *

* 29 * 120,0 150,0 * 0,350 0,438 0,515 0,470 0,434 *

* 30 * 130,0 162,5 * 0,390 0,499 0,656 0,538 0,487 *

* 31 * 145,0 181,3 * 0,460 0,605 0,915 0,656 0,586 *

* 32 * 150,0 187,5 * 0,515 0,739 1,017 0,742 0,661 *

* 33 * 155,0 193,8 * 0,619 0,837 1,119 0,836 0,749 *

* 34 * 160,0 200,0 * 0,742 0,940 1,242 0,942 0,866 *

* 35 * 165,0 206,3 * 0,848 1,040 1,377 1,043 0,962 *

* 36 * 170,0 212,5 * 1,016 1,154 1,534 1,155 1,079 *

* 37 * 175,0 218,8 * 1,159 1,305 1,708 1,268 1,205 *

BEICONVERFORMUNGEN IN 0/00

| * LASISTUFE | * P KN | * M KNM | * 1 | * 2 | * 3 | * 4 | * 5 | * 6 | * 7 | * 8 | * |
|-------------|-----------|------------|-------|-------|--------|--------|--------|--------|--------|--------|---|
| MESZSTELLE | | | | | | | | | | | |
| 1 | 0.0 | 0.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| 4 | 60.0 | 75.0 | 0.480 | 0.440 | 0.470 | 0.400 | 0.470 | 0.430 | 0.390 | 0.530 | * |
| 5 | 60.0 | 75.0 | 0.440 | 0.330 | 0.380 | 0.410 | 0.460 | 0.420 | 0.390 | 0.470 | * |
| 7 | 90.0 | 112.5 | 0.740 | 0.450 | 0.410 | 0.550 | 0.560 | 0.580 | 0.520 | 0.600 | * |
| 8 | 95.0 | 118.8 | 0.720 | 0.530 | 0.630 | 0.640 | 0.650 | 0.630 | 0.620 | 0.740 | * |
| 9 | 100.0 | 125.0 | 0.790 | 0.700 | 0.720 | 0.610 | 0.790 | 0.760 | 0.340 | 0.580 | * |
| 10 | 105.0 | 131.3 | 0.920 | 0.530 | 0.640 | 0.650 | 0.720 | 0.720 | 0.700 | 0.620 | * |
| 11 | 110.0 | 137.5 | 0.920 | 0.700 | 0.720 | 0.680 | 0.780 | 0.710 | 0.550 | 0.720 | * |
| 12 | 115.0 | 143.8 | 1.000 | 0.670 | 0.840 | 0.720 | 0.900 | 0.800 | 0.750 | 0.830 | * |
| 14 | 120.0 | 150.0 | 1.160 | 0.720 | 0.910 | 0.720 | 0.960 | 0.810 | 0.740 | 0.810 | * |
| 17 | 135.0 | 168.8 | 1.180 | 0.740 | 1.310 | 0.620 | 1.610 | 0.760 | 0.770 | 0.890 | * |
| 18 | 140.0 | 175.0 | 1.350 | 0.720 | 1.490 | 0.520 | 2.250 | 0.740 | 0.830 | 0.960 | * |
| 19 | 145.0 | 181.3 | 1.460 | 0.850 | 1.630 | 0.570 | 3.050 | 0.820 | 0.910 | 1.190 | * |
| 20 | 0.0 | 0.0 | 0.000 | 0.010 | -0.060 | -0.060 | 0.020 | -0.040 | -0.100 | -0.100 | * |
| 24 | 0.0 | 0.0 | 0.070 | 0.090 | 0.020 | -0.080 | -0.010 | 0.000 | -0.280 | -0.230 | * |
| 26 | 90.0 | 112.5 | 0.860 | 0.660 | 0.700 | 0.610 | 0.810 | 0.660 | 0.490 | 0.620 | * |
| 29 | 120.0 | 150.0 | 1.180 | 0.720 | 1.260 | 0.620 | 1.770 | 0.720 | 0.710 | 0.970 | * |
| 31 | 145.0 | 181.3 | 1.610 | 0.740 | 1.640 | 0.500 | 3.330 | 0.770 | 0.850 | 1.220 | * |
| 32 | 150.0 | 187.5 | 1.820 | 0.640 | 1.810 | 0.570 | 3.970 | 0.810 | 0.860 | 1.500 | * |
| 33 | 155.0 | 193.8 | 2.180 | 0.670 | 1.950 | 0.500 | 4.770 | 0.860 | 0.800 | 1.980 | * |
| 34 | 160.0 | 200.0 | 2.740 | 0.810 | 2.260 | 0.670 | 5.580 | 0.970 | 0.850 | 2.400 | * |
| 35 | 165.0 | 206.3 | 3.020 | 0.890 | 2.530 | 1.010 | 6.020 | 0.880 | 0.840 | 2.920 | * |

BETONVERFORMUNGEN IN 0/00

| ***** | | | | | | | | | | | |
|-------------|---------|---------|----------|------------|--------|--------|--------|--------|-------|-------|-------|
| * | * | * | * | MESZSTELLE | | | | | | | |
| * LASTSTUFE | * P | * M | * | | | | | | | | * |
| * | * KN | * KNH | * | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| ***** | | | | | | | | | | | |
| * 1 | * 0,0 | * 0,0 | * 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 |
| * 4 | * 60,0 | * 75,0 | * 0,330 | 0,490 | 0,190 | 0,440 | 0,450 | 0,540 | 0,500 | 0,440 | * |
| * 5 | * 60,0 | * 75,0 | * 0,160 | 0,360 | 0,440 | 0,370 | 0,420 | 0,520 | 0,400 | 0,400 | * |
| * 7 | * 90,0 | * 112,5 | * 0,590 | 0,790 | 0,310 | 0,560 | 0,600 | 0,680 | 0,690 | 0,590 | * |
| * 8 | * 95,0 | * 118,8 | * 0,540 | 0,800 | 0,630 | 0,630 | 0,660 | 0,710 | 0,730 | 0,510 | * |
| * 9 | * 100,0 | * 125,0 | * 0,530 | 0,920 | 0,640 | 0,540 | 0,620 | 0,700 | 0,740 | 0,690 | * |
| * 10 | * 105,0 | * 131,3 | * 0,650 | 0,980 | 0,750 | 0,680 | 0,670 | 0,760 | 0,750 | 0,750 | * |
| * 11 | * 110,0 | * 137,5 | * 0,590 | 1,200 | 0,640 | 0,680 | 0,700 | 0,750 | 0,740 | 0,740 | * |
| * 12 | * 115,0 | * 143,8 | * 0,620 | 1,410 | 0,570 | 0,740 | 0,780 | 0,830 | 0,850 | 0,860 | * |
| * 14 | * 120,0 | * 150,0 | * 0,710 | 1,840 | 0,690 | 0,800 | 0,770 | 0,850 | 0,880 | 0,880 | * |
| * 17 | * 135,0 | * 168,8 | * 0,720 | 3,660 | 0,470 | 0,920 | 0,860 | 0,890 | 0,920 | 1,000 | * |
| * 18 | * 140,0 | * 175,0 | * 0,790 | 4,450 | 0,790 | 0,810 | 0,820 | 1,140 | 0,970 | 0,980 | * |
| * 19 | * 145,0 | * 181,3 | * 0,840 | 5,380 | 0,830 | 0,860 | 0,930 | 1,310 | 0,920 | 1,190 | * |
| * 20 | * 0,0 | * 0,0 | * -0,320 | -0,420 | -0,460 | -0,030 | -0,100 | 0,040 | 0,150 | 0,000 | * |
| * 24 | * 0,0 | * 0,0 | * -0,330 | -0,610 | -0,420 | -0,300 | -0,050 | -0,020 | 0,100 | 0,090 | * |
| * 26 | * 90,0 | * 112,5 | * 0,510 | 0,760 | 0,630 | 0,660 | 0,670 | 0,720 | 0,670 | 0,600 | * |
| * 29 | * 120,0 | * 150,0 | * 0,720 | 2,280 | -0,590 | 0,670 | 0,740 | 1,000 | 0,840 | 0,890 | * |
| * 31 | * 145,0 | * 181,3 | * 0,680 | 5,510 | 0,470 | 0,950 | 0,840 | 1,370 | 0,870 | 1,040 | * |
| * 32 | * 150,0 | * 187,5 | * 0,720 | 6,410 | -0,370 | 0,890 | 0,900 | 2,030 | 0,870 | 1,120 | * |
| * 33 | * 155,0 | * 193,8 | * 0,710 | 7,450 | 0,450 | 0,830 | 0,830 | 2,560 | 0,780 | 1,050 | * |
| * 34 | * 160,0 | * 200,0 | * 0,690 | 8,610 | 0,600 | 0,920 | 0,830 | 2,900 | 0,690 | 1,240 | * |
| * 35 | * 165,0 | * 206,3 | * 0,690 | 9,720 | 0,510 | 0,890 | 0,830 | 3,670 | 0,730 | 1,290 | * |
| ***** | | | | | | | | | | | |

BETONVERFORMUNGEN IN 0/00

| ***** | | | | | | | | | | | |
|-------------|-----------|------------|-------|-------|--------|--------|--------|--------|--------|--------|---|
| * LASTSTUFE | * P KN | * M KNM | * 17 | * 18 | * 19 | * 20 | * 21 | * 22 | * 23 | * 24 | * |
| ***** | | | | | | | | | | | |
| 1 | 0,0 | 0,0 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | * |
| 4 | 60,0 | 75,0 | 0,410 | 0,380 | 0,490 | -0,210 | -0,240 | -0,180 | -0,150 | -0,300 | * |
| 5 | 60,0 | 75,0 | 0,440 | 0,350 | 0,450 | -0,060 | -0,020 | 0,090 | 0,100 | 0,020 | * |
| 7 | 90,0 | 112,5 | 0,690 | 0,630 | 0,560 | -0,080 | -0,060 | -0,010 | -0,010 | -0,090 | * |
| 8 | 95,0 | 118,8 | 0,510 | 0,570 | 0,580 | -0,080 | -0,110 | -0,040 | 0,010 | -0,190 | * |
| 9 | 100,0 | 125,0 | 0,870 | 0,730 | 0,810 | -0,060 | -0,080 | 0,000 | 0,030 | -0,060 | * |
| 10 | 105,0 | 131,3 | 0,840 | 0,650 | 0,680 | -0,150 | -0,190 | -0,090 | -0,010 | -0,240 | * |
| 11 | 110,0 | 137,5 | 0,750 | 0,660 | 0,640 | -0,220 | -0,180 | -0,110 | -0,070 | -0,340 | * |
| 12 | 115,0 | 143,8 | 0,930 | 0,700 | 0,850 | -0,200 | -0,180 | -0,160 | -0,090 | -0,240 | * |
| 14 | 120,0 | 150,0 | 0,900 | 0,800 | 0,720 | -0,170 | -0,230 | -0,260 | -0,190 | -0,400 | * |
| 17 | 135,0 | 168,8 | 1,020 | 0,870 | 0,790 | -0,310 | -0,320 | -0,290 | -0,220 | -0,480 | * |
| 18 | 140,0 | 175,0 | 1,580 | 0,820 | 0,830 | -0,340 | -0,320 | -0,300 | -0,200 | -0,520 | * |
| 19 | 145,0 | 181,3 | 2,380 | 0,960 | 0,990 | -0,280 | -0,260 | -0,250 | -0,170 | -0,410 | * |
| 20 | 0,0 | 0,0 | 0,110 | 0,110 | 0,020 | 0,170 | 0,080 | 0,880 | 0,170 | 0,000 | * |
| 24 | 0,0 | 0,0 | 0,160 | 0,040 | -0,020 | 0,200 | 0,120 | 6,150 | 0,060 | 9,290 | * |
| 26 | 90,0 | 112,5 | 0,410 | 0,580 | 0,610 | -0,090 | -0,110 | -0,090 | -0,020 | -0,230 | * |
| 29 | 120,0 | 150,0 | 1,500 | 0,740 | 0,740 | -0,190 | -0,220 | -0,170 | -0,140 | -0,500 | * |
| 31 | 145,0 | 181,3 | 2,730 | 0,920 | 0,760 | -0,450 | -0,290 | -0,270 | -0,230 | -0,580 | * |
| 32 | 150,0 | 187,5 | 3,350 | 0,940 | 0,880 | -0,370 | -0,350 | -0,330 | -0,320 | -0,680 | * |
| 33 | 155,0 | 193,8 | 3,820 | 0,830 | 1,370 | -0,450 | -0,400 | -0,420 | -0,350 | -0,730 | * |
| 34 | 160,0 | 200,0 | 4,430 | 0,870 | 1,790 | -0,360 | -0,330 | -0,290 | -0,220 | -0,610 | * |
| 35 | 165,0 | 206,3 | 5,070 | 0,860 | 2,110 | -0,410 | -0,410 | -0,410 | -0,340 | -0,740 | * |
| ***** | | | | | | | | | | | |

BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | | | |
|-------------|----|---------|-------|---|------------|--------|--------|--------|--------|-------|--------|-------|---|
| ***** | | | | | | | | | | | | | |
| * | * | P | M | * | MESZSTELLE | | | | | | | * | |
| * LASTSTUFE | * | IN | IN | * | | | | | | | | * | |
| * | * | KN | KNM | * | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | * |
| * | * | | | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | | |
| * | 1 | * 0.0 | 0.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 4 | * 60.0 | 75.0 | * | -0.080 | -0.180 | -0.210 | -0.180 | 0.430 | 0.460 | 0.420 | 0.570 | * |
| * | 5 | * 60.0 | 75.0 | * | 0.120 | 0.040 | 0.040 | 0.030 | 0.320 | 0.420 | 0.860 | 0.270 | * |
| * | 7 | * 90.0 | 112.5 | * | 0.120 | 0.030 | -0.030 | -0.050 | 0.700 | 0.750 | 0.810 | 1.700 | * |
| * | 8 | * 95.0 | 118.8 | * | 0.220 | -0.090 | -0.070 | -0.120 | 0.630 | 0.710 | 0.550 | 0.710 | * |
| * | 9 | * 100.0 | 125.0 | * | 0.290 | -0.090 | -0.040 | -0.050 | 0.660 | 0.800 | 0.900 | 0.780 | * |
| * | 10 | * 105.0 | 131.3 | * | 0.160 | 0.120 | -0.090 | -0.090 | 0.700 | 0.800 | 0.740 | 1.020 | * |
| * | 11 | * 110.0 | 137.5 | * | 0.100 | -0.130 | -0.190 | -0.170 | 0.630 | 0.730 | 1.240 | 0.820 | * |
| * | 12 | * 115.0 | 143.8 | * | 0.110 | -0.060 | -0.150 | -0.180 | 0.870 | 0.910 | 1.770 | 1.080 | * |
| * | 14 | * 120.0 | 150.0 | * | -0.070 | -0.220 | -0.220 | -0.230 | 0.780 | 1.110 | 1.330 | 1.520 | * |
| * | 17 | * 135.0 | 168.8 | * | -0.060 | -0.210 | -0.310 | -0.290 | 0.580 | 1.260 | 1.120 | 1.490 | * |
| * | 18 | * 140.0 | 175.0 | * | -0.070 | -0.270 | -0.290 | -0.290 | 0.490 | 1.520 | 1.080 | 2.050 | * |
| * | 19 | * 145.0 | 181.3 | * | 0.090 | -0.210 | -0.270 | -0.270 | 0.540 | 1.760 | 1.350 | 2.680 | * |
| * | 20 | * 0.0 | 0.0 | * | 0.000 | 0.840 | 0.190 | 0.920 | 0.620 | 0.810 | 11.190 | 0.230 | * |
| * | 24 | * 0.0 | 0.0 | * | 0.110 | 0.270 | 0.200 | 0.250 | -0.060 | 0.140 | 0.720 | 0.440 | * |
| * | 26 | * 90.0 | 112.5 | * | 0.150 | -0.110 | -0.090 | -0.110 | 0.620 | 0.890 | 0.760 | 0.830 | * |
| * | 29 | * 120.0 | 150.0 | * | -0.150 | -0.250 | -0.210 | -0.200 | 0.650 | 1.280 | 1.040 | 1.500 | * |
| * | 31 | * 145.0 | 181.3 | * | -0.150 | -0.420 | -0.300 | -0.330 | 0.480 | 1.850 | 1.180 | 2.770 | * |
| * | 32 | * 150.0 | 187.5 | * | -0.330 | -0.370 | -0.400 | -0.340 | 0.830 | 2.170 | 1.540 | 2.880 | * |
| * | 33 | * 155.0 | 193.8 | * | -0.420 | -0.390 | -0.370 | -0.390 | 0.930 | 2.510 | 2.010 | 3.090 | * |
| * | 34 | * 160.0 | 200.0 | * | -0.280 | -0.300 | -0.330 | -0.380 | 1.420 | 2.940 | 1.510 | 3.290 | * |
| * | 35 | * 165.0 | 206.3 | * | -0.130 | -0.400 | -0.410 | -0.360 | 1.780 | 3.250 | 1.890 | 3.630 | * |
| ***** | | | | | | | | | | | | | |

BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | | | |
|-------|-----------|-------|-------|---|------------|--------|--------|--------|--------|--------|--------|--------|---|
| ***** | | | | | | | | | | | | | |
| * | * | * | * | | | | | | | | | * | |
| * | | P | M | * | MESZSTELLE | | | | | | | | * |
| * | LASTSTUFE | IN | IN | * | | | | | | | | | * |
| * | | KN | KNH | * | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | * |
| * | * | | | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | | |
| * | 1 | 0,0 | 0,0 | * | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | * |
| * | 4 | 60,0 | 75,0 | * | 0,330 | 0,310 | 0,350 | 0,460 | 0,370 | 0,480 | 0,430 | 0,480 | * |
| * | 5 | 60,0 | 75,0 | * | 0,040 | 0,230 | 0,390 | 0,330 | 0,420 | 0,320 | 0,310 | 0,380 | * |
| * | 7 | 90,0 | 112,5 | * | 0,550 | 0,590 | 0,630 | 0,680 | 0,690 | 0,770 | 0,610 | 0,520 | * |
| * | 8 | 95,0 | 118,8 | * | 0,590 | 0,600 | 0,550 | 0,670 | 0,580 | 0,460 | 0,530 | 0,500 | * |
| * | 9 | 100,0 | 125,0 | * | 0,720 | 0,630 | 0,800 | 0,790 | 0,800 | 1,010 | 0,650 | 0,640 | * |
| * | 10 | 105,0 | 131,3 | * | 0,470 | 0,660 | 0,880 | 0,880 | 0,760 | 1,170 | 0,620 | 0,720 | * |
| * | 11 | 110,0 | 137,5 | * | 0,600 | 0,580 | 0,680 | 0,770 | 0,700 | 1,390 | 0,570 | 0,560 | * |
| * | 12 | 115,0 | 143,8 | * | 0,610 | 0,700 | 0,740 | 0,690 | 0,790 | 1,540 | 0,620 | 0,640 | * |
| * | 14 | 120,0 | 150,0 | * | 0,590 | 0,710 | 0,920 | 0,900 | 0,790 | 2,010 | 0,580 | 0,660 | * |
| * | 17 | 135,0 | 168,8 | * | 0,470 | 0,860 | 1,080 | 0,970 | 0,750 | 3,570 | 0,550 | 0,620 | * |
| * | 18 | 140,0 | 175,0 | * | 0,390 | 1,030 | 1,170 | 1,100 | 0,810 | 4,630 | 0,670 | 0,800 | * |
| * | 19 | 145,0 | 181,3 | * | 0,670 | 1,130 | 1,530 | 1,050 | 0,950 | 5,260 | 0,710 | 0,840 | * |
| * | 20 | 0,0 | 0,0 | * | 0,540 | 0,470 | 0,700 | -0,040 | 0,470 | -0,520 | -0,230 | 0,430 | * |
| * | 24 | 0,0 | 0,0 | * | -0,180 | -0,170 | -0,190 | -0,170 | -0,160 | -0,790 | -0,310 | -0,200 | * |
| * | 26 | 90,0 | 112,5 | * | 0,390 | 0,430 | 0,660 | 0,650 | 0,790 | 0,670 | 0,570 | 0,560 | * |
| * | 29 | 120,0 | 150,0 | * | 0,340 | 0,720 | 0,970 | 0,840 | 0,880 | 1,850 | 0,590 | 0,640 | * |
| * | 31 | 145,0 | 181,3 | * | 0,620 | 0,890 | 1,530 | 0,860 | 0,830 | 5,360 | 0,490 | 0,710 | * |
| * | 32 | 150,0 | 187,5 | * | 0,970 | 1,100 | 1,810 | 0,930 | 0,980 | 6,510 | 0,720 | 0,810 | * |
| * | 33 | 155,0 | 193,8 | * | 1,460 | 1,060 | 2,160 | 0,770 | 0,950 | 7,090 | 0,680 | 0,710 | * |
| * | 34 | 160,0 | 200,0 | * | 2,190 | 1,200 | 2,610 | 0,740 | 0,910 | 8,630 | 0,720 | 0,840 | * |
| * | 35 | 165,0 | 206,3 | * | 2,890 | 1,290 | 3,170 | 0,880 | 1,030 | 9,760 | 0,720 | 0,800 | * |
| ***** | | | | | | | | | | | | | |

BETONVERFORMUNGEN IN 0/00

| ***** | | | | | | | | | | | |
|-------------|---------|---------|---|------------|--------|--------|--------|-------|--------|--------|--------|
| * | * | * | * | MESZSTELLE | | | | | | | |
| * LASTSTUFE | * P | * M | * | | | | | | | | * |
| * | * KN | * KNM | * | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| ***** | | | | | | | | | | | |
| * 1 | * 0.0 | * 0.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| * 4 | * 60.0 | * 75.0 | * | 0.460 | 0.270 | 0.340 | 0.340 | 0.480 | 0.450 | 0.430 | -0.190 |
| * 5 | * 60.0 | * 75.0 | * | 0.420 | 0.230 | 0.460 | 0.070 | 0.420 | 0.360 | 0.410 | -0.520 |
| * 7 | * 90.0 | * 112.5 | * | 0.560 | 0.490 | 0.100 | 0.330 | 0.700 | 0.650 | 0.650 | -0.030 |
| * 8 | * 95.0 | * 118.8 | * | 0.620 | 0.460 | 0.570 | 0.360 | 0.630 | 0.580 | 0.490 | 0.000 |
| * 9 | * 100.0 | * 125.0 | * | 0.690 | 0.630 | 0.700 | 0.570 | 0.790 | 0.700 | 0.670 | -0.150 |
| * 10 | * 105.0 | * 131.3 | * | 0.730 | 0.540 | 0.750 | 0.450 | 0.750 | 0.800 | 0.730 | 12.600 |
| * 11 | * 110.0 | * 137.5 | * | 0.660 | 0.620 | 0.540 | 0.500 | 0.770 | 0.750 | 0.690 | -0.250 |
| * 12 | * 115.0 | * 143.8 | * | 0.760 | 0.690 | 0.780 | 0.750 | 0.830 | 0.710 | 0.760 | -0.300 |
| * 14 | * 120.0 | * 150.0 | * | 0.850 | 0.720 | 0.680 | 0.700 | 0.880 | 0.740 | 0.680 | -0.280 |
| * 17 | * 135.0 | * 168.8 | * | 0.890 | 0.720 | 1.020 | 0.730 | 0.920 | 0.730 | 0.770 | -0.360 |
| * 18 | * 140.0 | * 175.0 | * | 0.960 | 0.790 | 1.400 | 0.830 | 1.090 | 0.950 | 0.920 | -0.370 |
| * 19 | * 145.0 | * 181.3 | * | 1.000 | 0.900 | 1.890 | 1.050 | 1.490 | 0.990 | 0.980 | -0.100 |
| * 20 | * 0.0 | * 0.0 | * | 0.550 | -0.090 | 0.000 | 0.000 | 0.790 | -0.050 | 0.000 | 11.050 |
| * 24 | * 0.0 | * 0.0 | * | -0.080 | -0.140 | -0.170 | -0.120 | 0.100 | -0.090 | -0.040 | 0.040 |
| * 26 | * 90.0 | * 112.5 | * | 0.570 | 0.470 | 0.530 | 0.490 | 0.650 | 0.600 | 0.680 | -1.020 |
| * 29 | * 120.0 | * 150.0 | * | 0.810 | 0.700 | 1.270 | 0.760 | 1.130 | 0.790 | 0.820 | -0.820 |
| * 31 | * 145.0 | * 181.3 | * | 0.890 | 0.730 | 1.820 | 0.580 | 1.590 | 0.820 | 0.890 | -0.700 |
| * 32 | * 150.0 | * 187.5 | * | 1.160 | 0.780 | 2.300 | 0.950 | 2.960 | 0.970 | 0.970 | -0.470 |
| * 33 | * 155.0 | * 193.8 | * | 1.100 | 0.750 | 2.430 | 0.920 | 3.590 | 0.960 | 0.940 | -1.060 |
| * 34 | * 160.0 | * 200.0 | * | 1.380 | 0.790 | 2.810 | 0.980 | 4.280 | 1.120 | 1.300 | -0.770 |
| * 35 | * 165.0 | * 206.3 | * | 2.550 | 0.660 | 2.920 | 0.920 | 4.760 | 1.330 | 1.570 | -0.700 |
| ***** | | | | | | | | | | | |

BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | | |
|-------------|---------|-------|---|------------|--------|--------|--------|--------|--------|--------|--------|---|
| ***** | | | | | | | | | | | | |
| * | * | * | * | MESZSTELLE | | | | | | | * | |
| * LASTSTUFE | * P | M | * | | | | | | | | | * |
| * | * IN | IN | * | | | | | | | | | * |
| * | * KN | KNM | * | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | * |
| * | * | | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | |
| * 1 | * 0,0 | 0,0 | * | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | * |
| * 4 | * 60,0 | 75,0 | * | 0,030 | -0,130 | -0,090 | -0,250 | -0,140 | -0,120 | -0,190 | -0,280 | * |
| * 5 | * 60,0 | 75,0 | * | 0,190 | 0,090 | 0,170 | 0,060 | 0,400 | 0,090 | 0,100 | 0,080 | * |
| * 7 | * 90,0 | 112,5 | * | 0,170 | 0,080 | 0,050 | -0,020 | 0,090 | 0,040 | 0,010 | 0,020 | * |
| * 8 | * 95,0 | 118,8 | * | 0,000 | 0,010 | -0,030 | -0,050 | -0,070 | -0,040 | -0,060 | -0,130 | * |
| * 9 | * 100,0 | 125,0 | * | -0,170 | -0,040 | -0,030 | -0,170 | 0,040 | 0,000 | 0,010 | -0,020 | * |
| * 10 | * 105,0 | 131,3 | * | -1,210 | -0,090 | -0,110 | -0,200 | -0,030 | -0,170 | -0,030 | -0,090 | * |
| * 11 | * 110,0 | 137,5 | * | -0,120 | -0,150 | -0,170 | -0,290 | -0,100 | -0,190 | -0,130 | -0,210 | * |
| * 12 | * 115,0 | 143,8 | * | -0,060 | -0,110 | 0,020 | -0,210 | 0,070 | -0,060 | -0,160 | -0,220 | * |
| * 14 | * 120,0 | 150,0 | * | -0,050 | -0,140 | 0,000 | -0,260 | -0,080 | -0,080 | -0,060 | -0,150 | * |
| * 17 | * 135,0 | 168,8 | * | -0,250 | -0,330 | -0,210 | -0,500 | -0,190 | -0,260 | -0,200 | -0,310 | * |
| * 18 | * 140,0 | 175,0 | * | -0,140 | -0,300 | -0,200 | -0,400 | -0,150 | -0,190 | -0,200 | -0,270 | * |
| * 19 | * 145,0 | 181,3 | * | -0,020 | -0,200 | -0,160 | -0,630 | -0,140 | -0,160 | -0,120 | -0,220 | * |
| * 20 | * 0,0 | 0,0 | * | 0,000 | 0,720 | 0,680 | 0,000 | 0,090 | 0,000 | 0,000 | 10,350 | * |
| * 24 | * 0,0 | 0,0 | * | 0,280 | 0,120 | 0,110 | 8,720 | 0,080 | 0,150 | 0,240 | 0,230 | * |
| * 26 | * 90,0 | 112,5 | * | -0,230 | -0,070 | -0,130 | -0,310 | 0,090 | -0,070 | -0,020 | -0,070 | * |
| * 29 | * 120,0 | 150,0 | * | -0,220 | -0,180 | -0,170 | -0,340 | -0,030 | -0,140 | -0,160 | -0,180 | * |
| * 31 | * 145,0 | 181,3 | * | -1,550 | -0,290 | -0,370 | -0,620 | -0,290 | -0,340 | -0,310 | -0,300 | * |
| * 32 | * 150,0 | 187,5 | * | -0,250 | -0,270 | -0,220 | -0,650 | -0,240 | -0,330 | -0,350 | -0,370 | * |
| * 33 | * 155,0 | 193,8 | * | -0,930 | -0,340 | -0,260 | -0,680 | -0,250 | -0,260 | -0,370 | -0,350 | * |
| * 34 | * 160,0 | 200,0 | * | -0,600 | -0,300 | -0,270 | -0,550 | -0,240 | -0,310 | -0,340 | -0,320 | * |
| * 35 | * 165,0 | 206,3 | * | -0,740 | -0,360 | -0,410 | -0,830 | -0,100 | -0,310 | -0,330 | -0,360 | * |
| ***** | | | | | | | | | | | | |

VERSUCHSBALKEN R1

GENESSENE RISSBREITEN IN MM

| * * * | * P | * H | * MESZSTELLE | * * * |
|-------------|---------|---------|---|-------|
| * LASTSTUFE | * IN | * IN | | * * * |
| * KN | * KN | * KN | 1 2 3 4 5 6 7 8 | * * * |
| * 7 | * 90.0 | * 112.5 | * 0.100 0.000 0.000 0.000 0.000 0.000 0.000 0.000 | * * * |
| * 8 | * 95.0 | * 118.8 | * 0.110 0.000 0.000 0.000 0.000 0.000 0.000 0.000 | * * * |
| * 10 | * 105.0 | * 131.3 | * 0.120 0.000 0.000 0.000 0.000 0.000 0.000 0.000 | * * * |
| * 11 | * 110.0 | * 137.5 | * 0.170 0.000 0.000 0.000 0.000 0.000 0.000 0.000 | * * * |
| * 12 | * 115.0 | * 143.8 | * 0.170 0.000 0.000 0.000 0.000 0.000 0.000 0.000 | * * * |
| * 13 | * 120.0 | * 150.0 | * 0.170 0.000 0.000 0.000 0.000 0.000 0.000 0.000 | * * * |
| * 17 | * 135.0 | * 168.8 | * 0.160 0.000 0.000 0.000 0.000 0.000 0.000 0.000 | * * * |
| * 18 | * 140.0 | * 175.0 | * 0.160 0.120 0.060 0.070 0.060 0.050 0.000 0.000 | * * * |
| * 19 | * 145.0 | * 181.3 | * 0.060 0.160 0.100 0.100 0.060 0.050 0.040 0.050 | * * * |
| * 27 | * 100.0 | * 125.0 | * 0.200 0.000 0.030 0.000 0.010 0.020 0.000 0.020 | * * * |
| * 28 | * 110.0 | * 137.5 | * 0.200 0.020 0.030 0.020 0.020 0.040 0.010 0.040 | * * * |
| * 29 | * 120.0 | * 150.0 | * 0.210 0.040 0.030 0.030 0.020 0.050 0.020 0.040 | * * * |
| * 30 | * 130.0 | * 162.5 | * 0.210 0.120 0.040 0.060 0.030 0.060 0.030 0.040 | * * * |
| * 31 | * 145.0 | * 181.3 | * 0.250 0.180 0.080 0.100 0.060 0.080 0.040 0.060 | * * * |
| * 32 | * 150.0 | * 187.5 | * 0.290 0.300 0.120 0.100 0.060 0.100 0.080 0.080 | * * * |
| * 33 | * 155.0 | * 193.8 | * 0.320 0.360 0.130 0.120 0.080 0.120 0.080 0.080 | * * * |
| * 34 | * 160.0 | * 200.0 | * 0.260 0.360 0.130 0.160 0.100 0.140 0.080 0.080 | * * * |
| * 35 | * 165.0 | * 206.3 | * 0.300 0.380 0.140 0.220 0.140 0.170 0.080 0.080 | * * * |

VERSUCHSBALKEN R1

GEMESSENE RISSBREITEN IN MU

| ★ | ★ | ★ | ★ | MESZSTELLE | | | | | | | | ★ |
|-------------|---------|-------|---------|------------|-------|-------|-------|-------|-------|-------|-------|---|
| ★ | ★ P | M | ★ | | | | | | | | | ★ |
| ★ LASTSTUFE | ★ IN | IN | ★ | | | | | | | | | ★ |
| ★ | ★ KN | KNM | ★ | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | ★ |
| ***** | | | | | | | | | | | | |
| ★ 7 | ★ 90.0 | 112.5 | ★ 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | ★ |
| ★ 8 | ★ 95.0 | 118.8 | ★ 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | ★ |
| ★ 10 | ★ 105.0 | 131.3 | ★ 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | ★ |
| ★ 11 | ★ 110.0 | 137.5 | ★ 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | ★ |
| ★ 12 | ★ 115.0 | 143.8 | ★ 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | ★ |
| ★ 13 | ★ 120.0 | 150.0 | ★ 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | ★ |
| ★ 17 | ★ 135.0 | 168.8 | ★ 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | ★ |
| ★ 18 | ★ 140.0 | 175.0 | ★ 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | ★ |
| ★ 19 | ★ 145.0 | 181.3 | ★ 0.050 | 0.070 | 0.040 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | ★ |
| ★ 27 | ★ 100.0 | 125.0 | ★ 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | ★ |
| ★ 28 | ★ 110.0 | 137.5 | ★ 0.030 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | ★ |
| ★ 29 | ★ 120.0 | 150.0 | ★ 0.020 | 0.030 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | ★ |
| ★ 30 | ★ 130.0 | 162.5 | ★ 0.030 | 0.060 | 0.030 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | ★ |
| ★ 31 | ★ 145.0 | 181.3 | ★ 0.060 | 0.080 | 0.060 | 0.070 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | ★ |
| ★ 32 | ★ 150.0 | 187.5 | ★ 0.040 | 0.120 | 0.080 | 0.070 | 0.020 | 0.020 | 0.050 | 0.080 | 0.060 | ★ |
| ★ 33 | ★ 155.0 | 193.8 | ★ 0.080 | 0.130 | 0.140 | 0.090 | 0.020 | 0.070 | 0.100 | 0.100 | 0.060 | ★ |
| ★ 34 | ★ 160.0 | 200.0 | ★ 0.090 | 0.140 | 0.160 | 0.120 | 0.040 | 0.070 | 0.120 | 0.070 | 0.070 | ★ |
| ★ 35 | ★ 165.0 | 206.3 | ★ 0.090 | 0.150 | 0.160 | 0.120 | 0.050 | 0.080 | 0.120 | 0.100 | 0.100 | ★ |
| ***** | | | | | | | | | | | | |

VERSUCHSHALKEN R1

GEMESSENE RISSBREITEN IN MM

| * LASTSTUFE | * P | * M | * MESZSTELLE | | | | | | | | | * |
|-------------|---------|---------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---|
| * KN | * KN | * KN | | * 17 | * 18 | * 19 | * 20 | * 21 | * 22 | * 23 | * 24 | * |
| ***** | | | | | | | | | | | | |
| * 7 | * 90.0 | * 112.5 | | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * |
| * 8 | * 95.0 | * 118.8 | | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * |
| * 10 | * 105.0 | * 131.3 | | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * |
| * 11 | * 110.0 | * 137.5 | | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * |
| * 12 | * 115.0 | * 143.8 | | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * |
| * 13 | * 120.0 | * 150.0 | | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * |
| * 17 | * 135.0 | * 168.8 | | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * |
| * 18 | * 140.0 | * 175.0 | | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * |
| * 19 | * 145.0 | * 181.3 | | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * |
| * 27 | * 100.0 | * 125.0 | | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * |
| * 28 | * 110.0 | * 137.5 | | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * |
| * 29 | * 120.0 | * 150.0 | | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * |
| * 30 | * 130.0 | * 162.5 | | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * |
| * 31 | * 145.0 | * 181.3 | | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * |
| * 32 | * 150.0 | * 187.5 | | * 0.050 | * 0.040 | * 0.020 | * 0.040 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * |
| * 33 | * 155.0 | * 193.8 | | * 0.080 | * 0.060 | * 0.060 | * 0.040 | * 0.060 | * 0.020 | * 0.040 | * 0.030 | * |
| * 34 | * 160.0 | * 200.0 | | * 0.110 | * 0.060 | * 0.080 | * 0.050 | * 0.080 | * 0.040 | * 0.070 | * 0.060 | * |
| * 35 | * 165.0 | * 206.3 | | * 0.160 | * 0.090 | * 0.170 | * 0.050 | * 0.160 | * 0.060 | * 0.070 | * 0.060 | * |
| ***** | | | | | | | | | | | | |

VERSUCHSBALKEN R1

GEHESSENE RISSBREITEN IN MM

| | | | | | | | | | | | | | |
|-------|------------|--------|-------|------------|-------|-------|-------|-------|-------|-------|-------|-------|---|
| * | * | * | * | MESZSTELLE | | | | | | | | * | |
| * | * | P | M | * | | | | | | | | | * |
| * | LASTSTUFFE | IN | IN | * | | | | | | | | | * |
| * | * | KN | KNH | * | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | * |
| ***** | | | | | | | | | | | | | |
| * | 7 | * 90.0 | 112.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 8 | * 95.0 | 118.8 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 10 | *105.0 | 131.3 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 11 | *110.0 | 137.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 12 | *115.0 | 143.8 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 13 | *120.0 | 150.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 17 | *135.0 | 168.8 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 18 | *140.0 | 175.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 19 | *145.0 | 181.3 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 27 | *100.0 | 125.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 28 | *110.0 | 137.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 29 | *120.0 | 150.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 30 | *130.0 | 162.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 31 | *145.0 | 181.3 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 32 | *150.0 | 187.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 33 | *155.0 | 193.8 | * | 0.050 | 0.030 | 0.080 | 0.080 | 0.040 | 0.100 | 0.000 | 0.000 | * |
| * | 34 | *160.0 | 200.0 | * | 0.080 | 0.050 | 0.100 | 0.100 | 0.060 | 0.120 | 0.040 | 0.050 | * |
| * | 35 | *165.0 | 206.3 | * | 0.120 | 0.080 | 0.140 | 0.140 | 0.100 | 0.160 | 0.050 | 0.060 | * |
| ***** | | | | | | | | | | | | | |

VERSUCHSBALKEN R1

GEMESSENE RISSBREITEN IN MM

| * LASTSTUFE | * P | * H | * MESZSTELLE |
|-------------|------|------|--------------|
| * IN | * IN | * IN | |
| * KN | * KN | * KN | |

| | | | |
|------|---------|---------|---|
| * 7 | * 90.0 | * 112.5 | * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 |
| * 8 | * 95.0 | * 118.8 | * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 |
| * 10 | * 105.0 | * 131.3 | * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 |
| * 11 | * 110.0 | * 137.5 | * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 |
| * 12 | * 115.0 | * 143.8 | * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 |
| * 13 | * 120.0 | * 150.0 | * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 |
| * 17 | * 135.0 | * 168.8 | * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 |
| * 18 | * 140.0 | * 175.0 | * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 |
| * 19 | * 145.0 | * 181.3 | * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 |
| * 27 | * 100.0 | * 125.0 | * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 |
| * 28 | * 110.0 | * 137.5 | * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 |
| * 29 | * 120.0 | * 150.0 | * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 |
| * 30 | * 130.0 | * 162.5 | * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 |
| * 31 | * 145.0 | * 181.3 | * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 |
| * 32 | * 150.0 | * 187.5 | * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 |
| * 33 | * 155.0 | * 193.8 | * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 |
| * 34 | * 160.0 | * 200.0 | * 0.040 0.030 0.040 0.020 0.080 0.130 0.050 0.040 |
| * 35 | * 165.0 | * 206.3 | * 0.080 0.100 0.080 0.050 0.080 0.150 0.060 0.050 |

VERSUCHSBALKEN R1

GENESSENE RISSBREITEN IN MM

| * | * | * | * | * | * | * | * | * |
|-------------|---------|-------|---------|------------|-------|-------|-------|---|
| * | P | M | | MESZSTELLE | | | | * |
| * LASTSTUFE | * IN | IN | * | | | | | * |
| * | * KN | KNM | * | 41 | 42 | 43 | 44 | * |
| ***** | | | | | | | | |
| * 7 | * 90.0 | 112.5 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 8 | * 95.0 | 118.8 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 10 | * 105.0 | 131.3 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 11 | * 110.0 | 137.5 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 12 | * 115.0 | 143.8 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 13 | * 120.0 | 150.0 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 17 | * 135.0 | 168.8 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 18 | * 140.0 | 175.0 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 19 | * 145.0 | 181.3 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 27 | * 100.0 | 125.0 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 28 | * 110.0 | 137.5 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 29 | * 120.0 | 150.0 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 30 | * 130.0 | 162.5 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 31 | * 145.0 | 181.3 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 32 | * 150.0 | 187.5 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 33 | * 155.0 | 193.8 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 34 | * 160.0 | 200.0 | * 0.030 | 0.060 | 0.060 | 0.060 | 0.000 | * |
| * 35 | * 165.0 | 206.3 | * 0.060 | 0.090 | 0.100 | 0.070 | 0.000 | * |
| ***** | | | | | | | | |

VERSUCHSBALKEN R2

GEMESSENE DURCHBIEGUNGEN IN MM

| ***** | | | | | | | | | | | |
|-------------|---------|-------|------------|-------|-------|-------|-------|-------|-------|-------|---|
| * | * | * | MESZSTELLE | | | | | | | | * |
| * | P | M | | | | | | | | | * |
| * LASTSTUFE | IN | IN | | | | | | | | | * |
| * | KN | KNM | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | * |
| ***** | | | | | | | | | | | |
| * 1 | * 0,0 | 0,0 | * 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | * |
| * 2 | * 20,0 | 25,0 | * 0,800 | 0,965 | 1,010 | 0,995 | 0,980 | 0,965 | 0,855 | 0,625 | * |
| * 3 | * 40,0 | 50,0 | * 1,290 | 1,670 | 1,785 | 1,775 | 1,770 | 1,735 | 1,540 | 1,100 | * |
| * 4 | * 60,0 | 75,0 | * 1,765 | 2,415 | 2,610 | 2,630 | 2,635 | 2,620 | 2,310 | 1,660 | * |
| * 5 | * 80,0 | 100,0 | * 2,150 | 3,040 | 3,320 | 3,350 | 3,355 | 3,325 | 2,925 | 2,045 | * |
| * 6 | * 90,0 | 112,5 | * 2,375 | 3,415 | 3,745 | 3,790 | 3,790 | 3,730 | 3,285 | 2,260 | * |
| * 7 | * 95,0 | 118,8 | * 2,515 | 3,640 | 4,010 | 4,060 | 4,040 | 3,985 | 3,495 | 2,385 | * |
| * 8 | * 100,0 | 125,0 | * 2,640 | 3,910 | 4,285 | 4,325 | 4,310 | 4,250 | 3,710 | 2,515 | * |
| * 9 | * 105,0 | 131,3 | * 2,845 | 4,200 | 4,590 | 4,630 | 4,615 | 4,555 | 3,960 | 2,670 | * |
| * 10 | * 110,0 | 137,5 | * 2,960 | 4,415 | 4,840 | 4,870 | 4,855 | 4,775 | 4,155 | 2,785 | * |
| * 11 | * 115,0 | 143,8 | * 3,080 | 4,630 | 5,110 | 5,140 | 5,135 | 5,050 | 4,375 | 2,910 | * |
| * 12 | * 120,0 | 150,0 | * 3,225 | 4,915 | 5,420 | 5,455 | 5,440 | 5,350 | 4,620 | 3,050 | * |
| * 13 | * 125,0 | 156,3 | * 3,365 | 5,140 | 5,665 | 5,705 | 5,685 | 5,600 | 4,825 | 3,165 | * |
| * 14 | * 130,0 | 162,5 | * 3,475 | 5,370 | 5,935 | 5,995 | 5,985 | 5,875 | 5,065 | 3,295 | * |
| * 15 | * 135,0 | 168,8 | * 3,625 | 5,640 | 6,250 | 6,310 | 6,295 | 6,175 | 5,325 | 3,440 | * |
| * 16 | * 140,0 | 175,0 | * 3,815 | 5,975 | 6,665 | 6,790 | 6,765 | 6,660 | 5,745 | 3,745 | * |
| * 17 | * 145,0 | 181,3 | * 3,960 | 6,270 | 7,035 | 7,145 | 7,125 | 6,995 | 6,020 | 3,895 | * |
| * 18 | * 150,0 | 187,5 | * 4,200 | 6,745 | 7,595 | 7,760 | 7,725 | 7,555 | 6,535 | 4,145 | * |
| * 19 | * 0,0 | 0,0 | * 0,840 | 1,210 | 1,310 | 1,290 | 1,240 | 1,190 | 0,995 | 0,685 | * |
| * 20 | * 0,0 | 0,0 | * 0,760 | 1,025 | 1,195 | 1,190 | 1,090 | 1,160 | 0,880 | 0,655 | * |
| * 21 | * 40,0 | 50,0 | * 1,980 | 2,770 | 3,045 | 3,045 | 3,020 | 3,010 | 2,640 | 1,980 | * |
| * 22 | * 80,0 | 100,0 | * 2,755 | 4,020 | 4,430 | 4,450 | 4,430 | 4,360 | 3,815 | 2,720 | * |
| * 23 | * 100,0 | 125,0 | * 3,085 | 4,670 | 5,150 | 5,190 | 5,180 | 5,070 | 4,435 | 3,075 | * |
| * 24 | * 110,0 | 137,5 | * 3,295 | 5,055 | 5,590 | 5,640 | 5,630 | 5,500 | 4,825 | 3,280 | * |
| * 25 | * 120,0 | 150,0 | * 3,495 | 5,475 | 6,055 | 6,120 | 6,105 | 5,960 | 5,175 | 3,485 | * |
| ***** | | | | | | | | | | | |

VERSUCHSBALKEN R2

GEMESSENE DURCHBIEGUNGEN IN MM

* * * *

* * P M * MESZSTELLE *

* LASTSTUFE * IN IN * 2 3 4 5 6 7 8 9 *

* * KN KNM * 2 3 4 5 6 7 8 9 *

* 26 *130.0 162.5 * 3.720 5.900 6.545 6.635 6.630 6.455 5.625 3.700 *

* 27 *145.0 181.3 * 4.140 6.650 7.435 7.565 7.555 7.315 6.420 4.100 *

* 28 *150.0 187.5 * 4.330 6.955 7.850 7.985 8.000 7.755 6.790 4.295 *

* 29 *155.0 193.8 * 4.505 7.300 8.270 8.425 8.440 8.200 7.205 4.510 *

* 30 *160.0 200.0 * 4.730 7.795 8.840 9.020 9.035 8.775 7.680 4.735 *

* 31 *165.0 206.3 * 5.045 8.360 9.500 9.690 9.690 9.375 8.180 4.990 *

* 32 *170.0 212.5 * 5.275 8.965 10.230 10.445 10.390 10.070 8.785 5.275 *

* 33 *175.0 218.8 * 5.580 9.640 10.970 11.190 11.170 10.815 9.460 5.595 *

* 34 *180.0 225.0 * 5.980 10.420 11.915 12.165 12.145 11.770 10.280 5.940 *

* 35 * 0.0 0.0 * 1.210 1.905 2.125 2.040 2.010 1.855 1.670 1.030 *

GEMESSENE FUGENSPALTBREITEN IN MM

| | | | | |
|-------------|------|--------|--------------|---------|
| ***** | | | | |
| * | * | * | * | * |
| * | * P | M | *MESZSTELLE* | * |
| * LASTSTUFE | * IN | IN | * | * |
| * | * KN | KNM | * 10 | * |
| ***** | | | | |
| * | 1 | * 0.0 | 0.0 | * 0.000 |
| * | 2 | * 20.0 | 25.0 | * 0.004 |
| * | 3 | * 40.0 | 50.0 | * 0.009 |
| * | 4 | * 60.0 | 75.0 | * 0.015 |
| * | 5 | * 80.0 | 100.0 | * 0.025 |
| * | 6 | * 90.0 | 112.5 | * 0.034 |
| * | 7 | * 95.0 | 118.8 | * 0.042 |
| * | 8 | *100.0 | 125.0 | * 0.052 |
| * | 9 | *105.0 | 131.3 | * 0.067 |
| * | 10 | *110.0 | 137.5 | * 0.084 |
| * | 11 | *115.0 | 143.8 | * 0.106 |
| * | 12 | *120.0 | 150.0 | * 0.130 |
| * | 13 | *125.0 | 156.3 | * 0.157 |
| * | 14 | *130.0 | 162.5 | * 0.186 |
| * | 15 | *135.0 | 168.8 | * 0.218 |
| * | 16 | *140.0 | 175.0 | * 0.252 |
| * | 17 | *145.0 | 181.3 | * 0.287 |
| * | 18 | *150.0 | 187.5 | * 0.323 |
| * | 19 | * 0.0 | 0.0 | * 0.003 |
| * | 20 | * 0.0 | 0.0 | * 0.003 |
| * | 21 | * 40.0 | 50.0 | * 0.006 |
| * | 22 | * 80.0 | 100.0 | * 0.020 |
| * | 23 | *100.0 | 125.0 | * 0.046 |
| * | 24 | *110.0 | 137.5 | * 0.077 |
| * | 25 | *120.0 | 150.0 | * 0.121 |
| ***** | | | | |

GEMESSENE FUGENSPALTBREITEN IN MM

* * * * *

* P M *MESZSTELLE*

* LASTSTUFE * IN IN * *

* KN KNM * 10 *

* 26 *130,0 162,5 * 0,176 *

* 27 *145,0 181,3 * 0,275 *

* 28 *150,0 187,5 * 0,309 *

* 29 *155,0 193,8 * 0,348 *

* 30 *160,0 200,0 * 0,391 *

* 31 *165,0 206,3 * 0,440 *

* 32 *170,0 212,5 * 0,495 *

* 33 *175,0 218,8 * 0,572 *

* 34 *180,0 225,0 * 0,674 *

* 35 * 0,0 0,0 * 0,004 *

GEMESSENE SPANNSTAHLDEHNUNGEN IN MM/M

| * LASTSTUFE | * P | * M | * MESZSTELLE | * 11 | * 12 | * 13 | * 14 | * 15 | * 16 |
|-------------|---------|---------|--------------|-------|-------|-------|-------|-------|---------|
| * KN | * KNM | | | | | | | | |
| * 1 | * 0.0 | * 0.0 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * 0.000 |
| * 2 | * 20.0 | * 25.0 | * 0.060 | 0.070 | 0.073 | 0.067 | 0.067 | 0.057 | * 0.057 |
| * 3 | * 40.0 | * 50.0 | * 0.117 | 0.128 | 0.140 | 0.137 | 0.137 | 0.109 | * 0.109 |
| * 4 | * 60.0 | * 75.0 | * 0.188 | 0.206 | 0.217 | 0.209 | 0.209 | 0.172 | * 0.172 |
| * 5 | * 80.0 | * 100.0 | * 0.251 | 0.276 | 0.291 | 0.277 | 0.277 | 0.230 | * 0.230 |
| * 6 | * 90.0 | * 112.5 | * 0.292 | 0.324 | 0.340 | 0.321 | 0.321 | 0.268 | * 0.268 |
| * 7 | * 95.0 | * 118.8 | * 0.319 | 0.352 | 0.372 | 0.344 | 0.344 | 0.291 | * 0.291 |
| * 8 | * 100.0 | * 125.0 | * 0.344 | 0.380 | 0.409 | 0.370 | 0.370 | 0.311 | * 0.311 |
| * 9 | * 105.0 | * 131.3 | * 0.383 | 0.412 | 0.448 | 0.392 | 0.392 | 0.328 | * 0.328 |
| * 10 | * 110.0 | * 137.5 | * 0.408 | 0.435 | 0.489 | 0.412 | 0.412 | 0.345 | * 0.345 |
| * 11 | * 115.0 | * 143.8 | * 0.431 | 0.464 | 0.542 | 0.435 | 0.435 | 0.365 | * 0.365 |
| * 12 | * 120.0 | * 150.0 | * 0.470 | 0.497 | 0.601 | 0.466 | 0.466 | 0.386 | * 0.386 |
| * 13 | * 125.0 | * 156.3 | * 0.499 | 0.525 | 0.667 | 0.493 | 0.493 | 0.410 | * 0.410 |
| * 14 | * 130.0 | * 162.5 | * 0.537 | 0.559 | 0.740 | 0.529 | 0.529 | 0.431 | * 0.431 |
| * 15 | * 135.0 | * 168.8 | * 0.570 | 0.605 | 0.817 | 0.574 | 0.574 | 0.456 | * 0.456 |
| * 16 | * 140.0 | * 175.0 | * 0.620 | 0.674 | 0.913 | 0.648 | 0.648 | 0.487 | * 0.487 |
| * 17 | * 145.0 | * 181.3 | * 0.688 | 0.752 | 1.008 | 0.732 | 0.732 | 0.524 | * 0.524 |
| * 18 | * 150.0 | * 187.5 | * 0.759 | 0.801 | 1.095 | 0.812 | 0.812 | 0.567 | * 0.567 |
| * 19 | * 0.0 | * 0.0 | * 0.123 | 0.107 | 0.082 | 0.067 | 0.067 | 0.055 | * 0.055 |
| * 20 | * 0.0 | * 0.0 | * 0.043 | 0.057 | 0.060 | 0.056 | 0.056 | 0.045 | * 0.045 |
| * 21 | * 40.0 | * 50.0 | * 0.171 | 0.183 | 0.204 | 0.175 | 0.175 | 0.150 | * 0.150 |
| * 22 | * 80.0 | * 100.0 | * 0.312 | 0.335 | 0.347 | 0.323 | 0.323 | 0.273 | * 0.273 |
| * 23 | * 100.0 | * 125.0 | * 0.398 | 0.424 | 0.438 | 0.417 | 0.417 | 0.344 | * 0.344 |
| * 24 | * 110.0 | * 137.5 | * 0.454 | 0.481 | 0.504 | 0.478 | 0.478 | 0.383 | * 0.383 |
| * 25 | * 120.0 | * 150.0 | * 0.515 | 0.544 | 0.593 | 0.550 | 0.550 | 0.424 | * 0.424 |

GEMESSENE SPANNSTAHLDEHNUNGEN IN MM/M

* * *

* * P M * MESZSTELLE *

* LASTSTUFE * IN IN * *

* * KN KNM * 11 12 13 14 15 *

* 26 *130.0 162.5 * 0.580 0.613 0.720 0.627 0.469 *

* 27 *145.0 181.3 * 0.689 0.725 0.971 0.770 0.548 *

* 28 *150.0 187.5 * 0.747 0.788 1.077 0.838 0.598 *

* 29 *155.0 193.8 * 0.792 0.843 1.159 0.896 0.721 *

* 30 *160.0 200.0 * 0.876 0.988 1.292 0.995 0.844 *

* 31 *165.0 206.3 * 0.984 1.102 1.414 1.076 0.932 *

* 32 *170.0 212.5 * 1.082 1.196 1.572 1.180 1.022 *

* 33 *175.0 218.8 * 1.199 1.325 1.801 1.325 1.128 *

* 34 *180.0 225.0 * 1.345 1.515 2.171 1.518 1.280 *

* 35 * 0.0 0.0 * 0.144 0.164 0.404 0.129 0.098 *

VERSUCHSBALKEN R2

BETONVERFORMUNGEN IN 0/00

| ***** | | | | | | | | | | | | |
|-------------|---------|---------|---|------------|-------|-------|-------|-------|--------|--------|--------|---|
| * | * | * | * | MESZSTELLE | | | | | | | | * |
| * LASTSTUFE | * P | * M | * | | | | | | | | | * |
| * | * KN | * KNM | * | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | * |
| ***** | | | | | | | | | | | | |
| * 1 | * 0,0 | * 0,0 | * | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | * |
| * 3 | * 40,0 | * 50,0 | * | 0,135 | 0,090 | 0,195 | 0,000 | 0,050 | 0,085 | 0,030 | 0,140 | * |
| * 5 | * 80,0 | * 100,0 | * | 0,315 | 0,275 | 0,245 | 0,325 | 0,260 | 0,335 | 0,115 | 0,265 | * |
| * 6 | * 90,0 | * 112,5 | * | 0,335 | 0,325 | 0,360 | 0,295 | 0,325 | 0,400 | 0,315 | 0,295 | * |
| * 7 | * 95,0 | * 118,8 | * | 0,325 | 0,330 | 0,380 | 0,355 | 0,335 | 0,390 | 0,245 | 0,290 | * |
| * 8 | * 100,0 | * 125,0 | * | 0,445 | 0,455 | 0,380 | 0,375 | 0,365 | 0,235 | 0,370 | 0,390 | * |
| * 9 | * 105,0 | * 131,3 | * | 0,470 | 0,420 | 0,370 | 0,360 | 0,435 | 0,335 | 0,365 | 0,455 | * |
| * 10 | * 110,0 | * 137,5 | * | 0,440 | 0,415 | 0,370 | 0,395 | 0,465 | 0,440 | 0,250 | 0,555 | * |
| * 11 | * 115,0 | * 143,8 | * | 0,500 | 0,420 | 0,440 | 0,360 | 0,520 | 0,430 | 0,300 | 0,475 | * |
| * 12 | * 120,0 | * 150,0 | * | 0,545 | 0,495 | 0,385 | 0,455 | 0,655 | 0,490 | 0,255 | 0,370 | * |
| * 13 | * 125,0 | * 156,3 | * | 0,550 | 0,490 | 0,460 | 0,565 | 0,760 | 0,540 | 0,415 | 0,515 | * |
| * 14 | * 130,0 | * 162,5 | * | 0,535 | 0,580 | 0,450 | 0,595 | 0,785 | 0,470 | 0,325 | 0,610 | * |
| * 15 | * 135,0 | * 168,8 | * | 0,615 | 0,560 | 0,485 | 0,640 | 0,895 | 0,525 | 0,470 | 0,595 | * |
| * 17 | * 145,0 | * 181,3 | * | 0,990 | 0,635 | 0,410 | 0,990 | 1,240 | 0,470 | 0,410 | 0,660 | * |
| * 18 | * 150,0 | * 187,5 | * | 1,195 | 0,655 | 0,355 | 1,075 | 1,440 | 0,585 | 0,370 | 0,815 | * |
| * 19 | * 0,0 | * 0,0 | * | 0,035 | 0,085 | 0,045 | 0,090 | 0,050 | -0,025 | -0,065 | 0,175 | * |
| * 20 | * 0,0 | * 0,0 | * | 0,060 | 0,040 | 0,125 | 0,015 | 0,010 | 0,045 | 0,000 | -0,005 | * |
| * 21 | * 40,0 | * 50,0 | * | 0,240 | 0,215 | 0,300 | 0,225 | 0,200 | 0,230 | 0,240 | 0,345 | * |
| * 22 | * 80,0 | * 100,0 | * | 0,395 | 0,345 | 0,370 | 0,345 | 0,305 | 0,310 | 0,155 | 0,450 | * |
| * 23 | * 100,0 | * 125,0 | * | 0,550 | 0,435 | 0,420 | 0,515 | 0,590 | 0,370 | 0,255 | 0,600 | * |
| * 26 | * 130,0 | * 162,5 | * | 0,925 | 0,515 | 0,325 | 0,840 | 1,065 | 0,500 | 0,355 | 0,685 | * |
| * 27 | * 145,0 | * 181,3 | * | 1,180 | 0,600 | 0,360 | 1,025 | 1,395 | 0,620 | 0,425 | 0,645 | * |
| * 28 | * 150,0 | * 187,5 | * | 1,275 | 0,575 | 0,365 | 1,155 | 1,540 | 0,565 | 0,455 | 0,670 | * |
| * 29 | * 155,0 | * 193,8 | * | 1,440 | 0,625 | 0,385 | 1,285 | 1,640 | 0,420 | 0,390 | 0,560 | * |
| * 30 | * 160,0 | * 200,0 | * | 1,640 | 0,715 | 0,450 | 1,465 | 1,830 | 0,695 | 0,540 | 0,865 | * |
| * 31 | * 165,0 | * 206,3 | * | 1,865 | 0,700 | 0,445 | 1,705 | 2,035 | 0,765 | 0,525 | 1,100 | * |
| ***** | | | | | | | | | | | | |

BETONSTAUCHUNGEN IN 0/00

| | | | | | | | | | | | | | |
|-------------|----|--------|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|---|
| ***** | | | | | | | | | | | | | |
| * | * | | * | | | | | | | | | * | |
| * | | P | M | | | | | | | | | * | |
| * LASISTUEE | * | IN | IN | * | | | | | | | | * | |
| * | * | KN | KNM | * | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | * |
| * | * | | | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | | |
| * | 32 | *170.0 | 212.5 | * | 1.995 | 0.730 | 0.465 | 1.910 | 2.230 | 0.835 | 0.495 | 1.180 | * |
| * | 33 | *175.0 | 218.8 | * | 2.145 | 0.750 | 0.920 | 1.930 | 2.295 | 0.780 | 0.365 | 1.155 | * |
| * | 34 | *180.0 | 225.0 | * | 2.340 | 0.945 | 1.435 | 2.010 | 2.420 | 0.935 | 0.645 | 1.240 | * |
| * | 35 | * 0.0 | 0.0 | * | 0.170 | 0.125 | 0.230 | 0.130 | 0.140 | 0.035 | 0.010 | 0.295 | * |
| ***** | | | | | | | | | | | | | |

VERSUCHSBALKEN R2

BETONVERFORMUNGEN IN 0/00

| ***** | | | | | | | | | | | | |
|-------------|------|--------|-------|------------|-------|--------|-------|-------|-------|-------|-------|---|
| * | * | * | * | MESZSTELLE | | | | | | | | * |
| * LASTSTUEE | * P | M | * | | | | | | | | | * |
| * | * IN | IN | * | | | | | | | | | * |
| * | * KN | KNM | * | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | * |
| * | * | * | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | |
| * | 1 | * 0.0 | 0.0 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 3 | * 40.0 | 50.0 | * 0.185 | 0.125 | 0.060 | 0.115 | 0.095 | 0.135 | 0.070 | 0.100 | * |
| * | 5 | * 80.0 | 100.0 | * 0.290 | 0.425 | 0.270 | 0.280 | 0.270 | 0.290 | 0.350 | 0.265 | * |
| * | 6 | * 90.0 | 112.5 | * 0.300 | 0.520 | 0.225 | 0.310 | 0.320 | 0.335 | 0.415 | 0.315 | * |
| * | 7 | * 95.0 | 118.8 | * 0.470 | 0.545 | 0.305 | 0.340 | 0.350 | 0.400 | 0.390 | 0.340 | * |
| * | 8 | *100.0 | 125.0 | * 0.480 | 0.725 | 0.310 | 0.395 | 0.410 | 0.415 | 0.435 | 0.395 | * |
| * | 9 | *105.0 | 131.3 | * 0.545 | 0.785 | 0.340 | 0.415 | 0.410 | 0.430 | 0.475 | 0.430 | * |
| * | 10 | *110.0 | 137.5 | * 0.570 | 0.930 | 0.320 | 0.460 | 0.445 | 0.505 | 0.605 | 0.440 | * |
| * | 11 | *115.0 | 143.8 | * 0.515 | 1.105 | 0.325 | 0.455 | 0.440 | 0.520 | 0.495 | 0.420 | * |
| * | 12 | *120.0 | 150.0 | * 0.635 | 1.360 | 0.375 | 0.535 | 0.510 | 0.615 | 0.655 | 0.530 | * |
| * | 13 | *125.0 | 156.3 | * 0.625 | 1.555 | 0.460 | 0.520 | 0.495 | 0.650 | 0.670 | 0.565 | * |
| * | 14 | *130.0 | 162.5 | * 0.605 | 1.780 | 0.410 | 0.540 | 0.510 | 0.725 | 0.775 | 0.620 | * |
| * | 15 | *135.0 | 168.8 | * 0.620 | 2.145 | 0.460 | 0.640 | 0.505 | 0.740 | 0.965 | 0.580 | * |
| * | 17 | *145.0 | 181.3 | * 0.620 | 2.845 | 0.400 | 0.610 | 0.555 | 0.810 | 1.525 | 0.530 | * |
| * | 18 | *150.0 | 187.5 | * 0.585 | 3.215 | 0.415 | 0.500 | 0.965 | 0.780 | 1.620 | 0.580 | * |
| * | 19 | * 0.0 | 0.0 | * 0.310 | 0.155 | -0.025 | 0.105 | 0.155 | 0.130 | 0.210 | 0.100 | * |
| * | 20 | * 0.0 | 0.0 | * 0.145 | 0.095 | -0.035 | 0.060 | 0.075 | 0.065 | 0.125 | 0.020 | * |
| * | 21 | * 40.0 | 50.0 | * 0.460 | 0.320 | 0.155 | 0.165 | 0.225 | 0.260 | 0.335 | 0.250 | * |
| * | 22 | * 80.0 | 100.0 | * 0.555 | 0.515 | 0.240 | 0.335 | 0.390 | 0.330 | 0.445 | 0.330 | * |
| * | 23 | *100.0 | 125.0 | * 0.610 | 0.775 | 0.325 | 0.385 | 0.535 | 0.460 | 0.640 | 0.430 | * |
| * | 26 | *130.0 | 162.5 | * 0.685 | 1.860 | 0.325 | 0.395 | 0.720 | 0.590 | 1.135 | 0.455 | * |
| * | 27 | *145.0 | 181.3 | * 0.660 | 2.790 | 0.345 | 0.395 | 0.910 | 0.680 | 1.445 | 0.450 | * |
| * | 28 | *150.0 | 187.5 | * 0.610 | 3.155 | 0.335 | 0.375 | 1.015 | 0.730 | 1.635 | 0.480 | * |
| * | 29 | *155.0 | 193.8 | * 0.605 | 3.475 | 0.395 | 0.455 | 1.175 | 0.745 | 1.730 | 0.545 | * |
| * | 30 | *160.0 | 200.0 | * 0.620 | 3.895 | 0.350 | 0.385 | 1.330 | 0.780 | 2.225 | 0.500 | * |
| * | 31 | *165.0 | 206.3 | * 0.630 | 4.435 | 0.370 | 0.415 | 1.585 | 0.930 | 2.565 | 0.685 | * |
| ***** | | | | | | | | | | | | |

VERSUCHSBALKEN R2

BEICONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | | | |
|-------------|----|--------|-------|---|------------|-------|-------|-------|-------|-------|-------|-------|---|
| ***** | | | | | | | | | | | | | |
| * | * | * | | | | | | | | | | * | |
| * | * | P | M | * | MESZSTELLE | | | | | | | | * |
| * LASTSTUFE | * | IN | IN | * | | | | | | | | | * |
| * | * | KN | KNM | * | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | * |
| * | * | | | | | | | | | | | | * |
| ***** | | | | | | | | | | | | | |
| * | 32 | *170.0 | 212.5 | * | 0.660 | 5.000 | 0.380 | 0.400 | 1.800 | 0.955 | 2.905 | 0.680 | * |
| * | 33 | *175.0 | 218.8 | * | 0.560 | 5.695 | 0.310 | 0.350 | 2.035 | 0.960 | 3.240 | 0.710 | * |
| * | 34 | *180.0 | 225.0 | * | 0.600 | 6.855 | 0.310 | 0.375 | 2.385 | 1.060 | 3.545 | 0.885 | * |
| * | 35 | * 0.0 | 0.0 | * | 0.385 | 0.295 | 0.040 | 0.170 | 0.260 | 0.175 | 0.305 | 0.220 | * |
| ***** | | | | | | | | | | | | | |

BETONVERFORMUNGEN IN 0/100

| | | | | | | | | | | | | |
|-------------|---------|-------|---|------------|-------|-------|--------|--------|--------|--------|--------|---|
| ***** | | | | | | | | | | | | |
| * | * | * | * | MESZSTELLE | | | | | | | | * |
| * LASTSTUFE | * IN | * IN | * | | | | | | | | | * |
| * | * KN | * KNM | * | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | * |
| * | * | * | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | |
| * 1 | * 0,0 | 0,0 | * | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | * |
| * 3 | * 40,0 | 50,0 | * | 0,035 | 0,135 | 0,150 | -0,110 | 0,245 | -0,120 | -0,055 | -0,370 | * |
| * 5 | * 80,0 | 100,0 | * | 0,145 | 0,285 | 0,290 | -0,090 | 0,305 | -0,120 | -0,100 | -0,315 | * |
| * 6 | * 90,0 | 112,5 | * | 0,175 | 0,330 | 0,315 | -0,200 | 0,085 | -0,175 | -0,075 | -0,430 | * |
| * 7 | * 95,0 | 118,8 | * | 0,105 | 0,385 | 0,390 | -0,155 | 0,010 | -0,155 | -0,130 | -0,420 | * |
| * 8 | * 100,0 | 125,0 | * | 0,190 | 0,395 | 0,400 | -0,155 | 0,240 | -0,140 | -0,105 | -0,495 | * |
| * 9 | * 105,0 | 131,3 | * | 0,200 | 0,445 | 0,435 | -0,200 | -0,125 | -0,155 | -0,105 | -0,460 | * |
| * 10 | * 110,0 | 137,5 | * | 0,245 | 0,380 | 0,455 | -0,185 | 0,170 | -0,190 | -0,175 | -0,360 | * |
| * 11 | * 115,0 | 143,8 | * | 0,270 | 0,465 | 0,445 | -0,210 | -0,100 | -0,205 | -0,175 | -0,440 | * |
| * 12 | * 120,0 | 150,0 | * | 0,565 | 0,590 | 0,455 | -0,145 | 0,080 | -0,160 | -0,175 | -0,430 | * |
| * 13 | * 125,0 | 156,3 | * | 0,500 | 0,560 | 0,470 | -0,200 | -0,070 | -0,215 | -0,140 | -0,535 | * |
| * 14 | * 130,0 | 162,5 | * | 0,550 | 0,565 | 0,495 | -0,205 | 0,150 | -0,240 | -0,145 | -0,570 | * |
| * 15 | * 135,0 | 168,8 | * | 0,770 | 0,675 | 0,515 | -0,205 | 0,220 | -0,250 | -0,205 | -0,590 | * |
| * 17 | * 145,0 | 181,3 | * | 0,680 | 0,765 | 0,540 | -0,235 | -0,020 | -0,280 | -0,225 | -0,610 | * |
| * 18 | * 150,0 | 187,5 | * | 0,870 | 0,825 | 0,550 | -0,270 | 0,120 | -0,270 | -0,200 | -0,605 | * |
| * 19 | * 0,0 | 0,0 | * | 0,090 | 0,180 | 0,140 | -0,020 | 0,345 | -0,030 | -0,055 | -0,080 | * |
| * 20 | * 0,0 | 0,0 | * | -0,005 | 0,090 | 0,110 | -0,080 | 0,305 | -0,075 | -0,090 | -0,185 | * |
| * 21 | * 40,0 | 50,0 | * | 0,190 | 0,310 | 0,235 | -0,145 | 0,245 | -0,085 | -0,100 | -0,295 | * |
| * 22 | * 80,0 | 100,0 | * | 0,255 | 0,425 | 0,345 | -0,245 | -0,200 | -0,235 | -0,140 | -0,520 | * |
| * 23 | * 100,0 | 125,0 | * | 0,405 | 0,515 | 0,390 | -0,225 | 0,025 | -0,210 | -0,185 | -0,405 | * |
| * 26 | * 130,0 | 162,5 | * | 0,685 | 0,635 | 0,435 | -0,300 | 0,055 | -0,230 | -0,240 | -0,530 | * |
| * 27 | * 145,0 | 181,3 | * | 0,865 | 0,755 | 0,530 | -0,300 | -0,015 | -0,330 | -0,245 | -0,625 | * |
| * 28 | * 150,0 | 187,5 | * | 0,715 | 0,735 | 0,560 | -0,330 | -0,030 | -0,350 | -0,310 | -0,625 | * |
| * 29 | * 155,0 | 193,8 | * | 0,990 | 0,810 | 0,530 | -0,315 | -0,040 | -0,315 | -0,250 | -0,655 | * |
| * 30 | * 160,0 | 200,0 | * | 1,120 | 0,800 | 0,520 | -0,300 | -0,045 | -0,335 | -0,325 | -0,560 | * |
| * 31 | * 165,0 | 206,3 | * | 1,400 | 0,930 | 0,685 | -0,340 | -0,065 | -0,385 | -0,275 | -0,680 | * |
| ***** | | | | | | | | | | | | |

BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | | | |
|---|-----------|----|-----|---|----|----|----|----|----|----|----|----|---|
| * | * | | * | | | | | | | | | * | |
| * | * | P | M | * | | | | | | | | * | |
| * | LASTSTUFE | IN | IN | * | | | | | | | | * | |
| * | * | KN | KNM | * | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | * |
| * | * | | | * | | | | | | | | | * |

| | | | | | | | | | | | | | |
|---|----|--------|-------|---|-------|-------|-------|--------|--------|--------|--------|--------|---|
| * | 32 | *170.0 | 212.5 | * | 1.415 | 0.860 | 0.735 | -0.365 | 0.060 | -0.370 | -0.335 | -0.640 | * |
| * | 33 | *175.0 | 218.8 | * | 1.525 | 0.580 | 0.845 | -0.430 | -0.230 | -0.425 | -0.370 | -0.785 | * |
| * | 34 | *180.0 | 225.0 | * | 1.600 | 1.220 | 1.030 | -0.430 | -0.125 | -0.420 | -0.370 | -0.725 | * |
| * | 35 | * 0.0 | 0.0 | * | 0.135 | 0.275 | 0.235 | -0.105 | 0.280 | -0.085 | -0.050 | -0.200 | * |

VERSUCHSBALKEN R2

BETONVERFORMUNGEN IN 0/00

| ***** | | | | | | | | | | | |
|-------------|---------|---------|----------|------------|--------|--------|-------|--------|--------|-------|----|
| * | * | * | * | MESSSTELLE | | | | | | | * |
| * LASTSTUFE | * IN | * IN | * | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| * | * KN | * KNM | * | | | | | | | | * |
| ***** | | | | | | | | | | | |
| * 1 | * 0.0 | * 0.0 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 3 | * 40.0 | * 50.0 | * -0.040 | -0.095 | -0.180 | 0.010 | 0.150 | 0.005 | 0.070 | 0.050 | * |
| * 5 | * 80.0 | * 100.0 | * -0.075 | -0.130 | -0.030 | -0.170 | 0.315 | 0.270 | 0.260 | 0.225 | * |
| * 6 | * 90.0 | * 112.5 | * -0.090 | -0.180 | -0.140 | -0.205 | 0.385 | 0.150 | 0.275 | 0.295 | * |
| * 7 | * 95.0 | * 118.8 | * -0.150 | -0.085 | -0.050 | -0.055 | 0.375 | 0.120 | 0.265 | 0.245 | * |
| * 8 | * 100.0 | * 125.0 | * -0.070 | -0.085 | 0.005 | -0.080 | 0.350 | 0.195 | 0.270 | 0.335 | * |
| * 9 | * 105.0 | * 131.3 | * -0.085 | -0.085 | 0.005 | -0.170 | 0.435 | 0.485 | 0.300 | 0.350 | * |
| * 10 | * 110.0 | * 137.5 | * -0.105 | -0.185 | -0.035 | -0.165 | 0.415 | 0.300 | 0.370 | 0.395 | * |
| * 11 | * 115.0 | * 143.8 | * -0.155 | -0.180 | -0.535 | -0.205 | 0.435 | 0.245 | 0.380 | 0.390 | * |
| * 12 | * 120.0 | * 150.0 | * -0.105 | -0.165 | -0.260 | -0.125 | 0.510 | 0.525 | 0.400 | 0.450 | * |
| * 13 | * 125.0 | * 156.3 | * -0.100 | -0.385 | -0.105 | -0.125 | 0.515 | 0.545 | 0.400 | 0.430 | * |
| * 14 | * 130.0 | * 162.5 | * -0.075 | -0.255 | -0.235 | -0.130 | 0.450 | 0.500 | 0.560 | 0.435 | * |
| * 15 | * 135.0 | * 168.8 | * -0.150 | -0.160 | -0.220 | -0.150 | 0.470 | 0.440 | 0.760 | 0.435 | * |
| * 17 | * 145.0 | * 181.3 | * -0.155 | -0.385 | -0.230 | -0.205 | 0.535 | 0.210 | 1.295 | 0.400 | * |
| * 18 | * 150.0 | * 187.5 | * -0.160 | -0.295 | -0.175 | -0.260 | 0.540 | 0.180 | 1.510 | 0.480 | * |
| * 19 | * 0.0 | * 0.0 | * 0.060 | -0.055 | 0.115 | -0.040 | 0.060 | -0.065 | 0.040 | 0.005 | * |
| * 20 | * 0.0 | * 0.0 | * -0.005 | -0.050 | 0.055 | -0.020 | 0.065 | -0.125 | -0.010 | 0.000 | * |
| * 21 | * 40.0 | * 50.0 | * -0.055 | -0.065 | 0.050 | -0.045 | 0.230 | -0.045 | 0.140 | 0.160 | * |
| * 22 | * 80.0 | * 100.0 | * -0.090 | -0.205 | -0.160 | -0.130 | 0.350 | 0.210 | 0.325 | 0.265 | * |
| * 23 | * 100.0 | * 125.0 | * -0.125 | -0.185 | -0.080 | -0.145 | 0.440 | 0.355 | 0.530 | 0.405 | * |
| * 26 | * 130.0 | * 162.5 | * -0.180 | -0.275 | -0.100 | -0.095 | 0.490 | 0.390 | 1.015 | 0.435 | * |
| * 27 | * 145.0 | * 181.3 | * -0.235 | -0.285 | -0.255 | -0.185 | 0.545 | 0.450 | 1.405 | 0.510 | * |
| * 28 | * 150.0 | * 187.5 | * -0.260 | -0.260 | -0.200 | -0.280 | 0.620 | 0.435 | 1.545 | 0.495 | * |
| * 29 | * 155.0 | * 193.8 | * -0.255 | -0.305 | -0.325 | -0.240 | 0.635 | 0.445 | 1.760 | 0.550 | * |
| * 30 | * 160.0 | * 200.0 | * -0.265 | -0.295 | -0.255 | -0.270 | 0.705 | 0.450 | 1.915 | 0.650 | * |
| * 31 | * 165.0 | * 206.3 | * -0.280 | -0.315 | -0.345 | -0.315 | 0.970 | 0.485 | 2.105 | 0.735 | * |
| ***** | | | | | | | | | | | |

VERSUCHSBALKEN R2

BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | |
|-------------|------|--------|-------|---------|--------|--------|------------|-------|-------|-------|-------|
| ***** | | | | | | | | | | | |
| * | * | | * | | | | | | | | * |
| * | * | P | M | | | | | | | | * |
| * LASTSTUFE | * IN | IN | | | | | MESZSTELLE | | | | * |
| * | * KN | KNM | * | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| * | * | | * | | | | | | | | * |
| ***** | | | | | | | | | | | |
| * | 32 | *170.0 | 212.5 | *-0.320 | -0.420 | -0.280 | -0.345 | 1.230 | 0.380 | 2.310 | 0.880 |
| * | 33 | *175.0 | 218.8 | *-0.345 | -0.425 | -0.515 | -0.365 | 1.535 | 0.435 | 2.470 | 0.950 |
| * | 34 | *180.0 | 225.0 | *-0.325 | -0.380 | -0.335 | -0.335 | 1.950 | 0.380 | 2.965 | 1.070 |
| * | 35 | * 0.0 | 0.0 | *-0.065 | -0.050 | -0.155 | 0.070 | 0.190 | 0.070 | 0.015 | 0.055 |
| ***** | | | | | | | | | | | |

BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | | | |
|-------|-----------|---------|-------|------------|-------|--------|--------|-------|--------|-------|--------|--------|---|
| ***** | | | | | | | | | | | | | |
| * | * | * | * | MESZSTELLE | | | | | | | | * | |
| * | LASTSTUFE | P | M | * | | | | | | | | | * |
| * | * | IN | IN | * | | | | | | | | | * |
| * | * | KN | KNH | * | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | * |
| * | * | * | * | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | | |
| * | 1 | * 0.0 | 0.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 3 | * 40.0 | 50.0 | * | 0.080 | 0.050 | 0.075 | 0.085 | -0.100 | 0.115 | 0.130 | -0.055 | * |
| * | 5 | * 80.0 | 100.0 | * | 0.250 | 0.235 | 0.245 | 0.280 | 0.110 | 0.355 | 0.295 | 0.170 | * |
| * | 6 | * 90.0 | 112.5 | * | 0.305 | 0.255 | 0.295 | 0.335 | 0.280 | 0.480 | 0.350 | 0.345 | * |
| * | 7 | * 95.0 | 118.8 | * | 0.335 | 0.365 | 0.325 | 0.320 | 0.040 | 0.535 | 0.290 | 0.310 | * |
| * | 8 | * 100.0 | 125.0 | * | 0.335 | 0.340 | 0.335 | 0.380 | 0.035 | 0.695 | 0.365 | 0.385 | * |
| * | 9 | * 105.0 | 131.3 | * | 0.385 | 0.400 | 0.340 | 0.385 | 0.195 | 0.795 | 0.380 | 0.275 | * |
| * | 10 | * 110.0 | 137.5 | * | 0.405 | 0.410 | 0.380 | 0.405 | 0.280 | 0.920 | 0.345 | 0.400 | * |
| * | 11 | * 115.0 | 143.8 | * | 0.425 | 0.465 | 0.405 | 0.365 | 0.125 | 1.125 | 0.380 | 0.375 | * |
| * | 12 | * 120.0 | 150.0 | * | 0.535 | 0.505 | 0.420 | 0.440 | 0.320 | 1.370 | 0.440 | 0.365 | * |
| * | 13 | * 125.0 | 156.3 | * | 0.680 | 0.480 | 0.415 | 0.455 | 0.330 | 1.590 | 0.440 | 0.520 | * |
| * | 14 | * 130.0 | 162.5 | * | 0.765 | 0.475 | 0.440 | 0.475 | 0.305 | 1.870 | 0.455 | 0.420 | * |
| * | 15 | * 135.0 | 168.8 | * | 0.855 | 0.445 | 0.560 | 0.490 | 0.235 | 2.210 | 0.435 | 0.445 | * |
| * | 17 | * 145.0 | 181.3 | * | 1.170 | 0.475 | 0.610 | 0.510 | 0.410 | 2.870 | 0.455 | 0.675 | * |
| * | 18 | * 150.0 | 187.5 | * | 1.235 | 0.375 | 0.900 | 0.505 | 0.190 | 3.240 | 0.385 | 0.895 | * |
| * | 19 | * 0.0 | 0.0 | * | 0.030 | 0.055 | -0.005 | 0.045 | -0.125 | 0.125 | 0.050 | 0.165 | * |
| * | 20 | * 0.0 | 0.0 | * | 0.020 | -0.010 | -0.010 | 0.045 | -0.160 | 0.040 | -0.025 | 0.025 | * |
| * | 21 | * 40.0 | 50.0 | * | 0.195 | 0.205 | 0.190 | 0.195 | 0.020 | 0.245 | 0.190 | 0.185 | * |
| * | 22 | * 80.0 | 100.0 | * | 0.330 | 0.295 | 0.320 | 0.305 | 0.295 | 0.445 | 0.300 | 0.335 | * |
| * | 23 | * 100.0 | 125.0 | * | 0.540 | 0.355 | 0.500 | 0.385 | 0.275 | 0.715 | 0.400 | 0.485 | * |
| * | 26 | * 130.0 | 162.5 | * | 0.915 | 0.375 | 0.675 | 0.420 | 0.365 | 1.910 | 0.425 | 0.745 | * |
| * | 27 | * 145.0 | 181.3 | * | 1.170 | 0.340 | 0.915 | 0.445 | 0.360 | 2.815 | 0.385 | 0.835 | * |
| * | 28 | * 150.0 | 187.5 | * | 1.275 | 0.385 | 0.970 | 0.485 | 0.370 | 3.120 | 0.405 | 1.035 | * |
| * | 29 | * 155.0 | 193.8 | * | 1.395 | 0.355 | 1.080 | 0.505 | 0.410 | 3.545 | 0.375 | 1.210 | * |
| * | 30 | * 160.0 | 200.0 | * | 1.565 | 0.335 | 1.185 | 0.495 | 0.345 | 3.945 | 0.395 | 1.415 | * |
| * | 31 | * 165.0 | 206.3 | * | 1.700 | 0.345 | 1.335 | 0.530 | 0.380 | 4.480 | 0.360 | 1.545 | * |
| ***** | | | | | | | | | | | | | |

BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | | | |
|-------|-----------|--------|-------|----|------------|-------|-------|-------|-------|-------|-------|-------|---|
| ***** | | | | | | | | | | | | | |
| * | * | | * | | | | | | | | | | * |
| * | * | P | M | * | MESZSTELLE | | | | | | | | * |
| * | LASTSTUFE | * | IN | IN | * | | | | | | | | * |
| * | * | KN | KNM | * | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | * |
| * | * | | | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | | |
| * | 32 | *170.0 | 212.5 | * | 1.825 | 0.345 | 1.605 | 0.505 | 0.425 | 5.085 | 0.325 | 1.785 | * |
| * | 33 | *175.0 | 218.8 | * | 1.940 | 0.295 | 1.835 | 0.505 | 0.270 | 5.790 | 0.295 | 1.855 | * |
| * | 34 | *180.0 | 225.0 | * | 2.210 | 0.375 | 2.020 | 0.630 | 0.360 | 6.990 | 0.340 | 2.170 | * |
| * | 35 | * 0.0 | 0.0 | * | 0.120 | 0.070 | 0.015 | 0.120 | 0.125 | 0.215 | 0.145 | 0.115 | * |
| ***** | | | | | | | | | | | | | |

VERSUCHSBALKEN R2

BETONVERFORMUNGEN IN 0/00

| * LASTSTUFF | * P | * M | * MESZSTELLE | | | | | | | | | |
|-------------|---------|-------|--------------|-------|-------|-------|-------|-------|--------|--------|-------|---|
| * KN | * IN | * KNM | * 41 | * 42 | * 43 | * 44 | * 45 | * 46 | * 47 | * 48 | | |
| * 1 | * 0.0 | 0.0 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 3 | * 40.0 | 50.0 | * 0.090 | 0.100 | 0.065 | 0.025 | 0.065 | 0.110 | 0.040 | -0.010 | | * |
| * 5 | * 80.0 | 100.0 | * 0.385 | 0.285 | 0.280 | 0.215 | 0.235 | 0.290 | 0.085 | -0.100 | | * |
| * 6 | * 90.0 | 112.5 | * 0.385 | 0.410 | 0.330 | 0.305 | 0.275 | 0.325 | 0.215 | -0.105 | | * |
| * 7 | * 95.0 | 118.8 | * 0.340 | 0.390 | 0.370 | 0.305 | 0.030 | 0.385 | 0.310 | -0.050 | | * |
| * 8 | * 100.0 | 125.0 | * 1.130 | 0.520 | 0.425 | 0.320 | 0.390 | 0.395 | 0.340 | -0.090 | | * |
| * 9 | * 105.0 | 131.3 | * 0.790 | 0.525 | 0.450 | 0.445 | 0.460 | 0.450 | 0.385 | -0.065 | | * |
| * 10 | * 110.0 | 137.5 | * 0.805 | 0.560 | 0.505 | 0.410 | 0.470 | 0.475 | 0.400 | -0.155 | | * |
| * 11 | * 115.0 | 143.8 | * 0.700 | 0.580 | 0.495 | 0.410 | 0.550 | 0.500 | 0.430 | -0.095 | | * |
| * 12 | * 120.0 | 150.0 | * 0.890 | 0.705 | 0.520 | 0.540 | 0.500 | 0.570 | 0.185 | -0.120 | | * |
| * 13 | * 125.0 | 156.3 | * 0.730 | 0.800 | 0.630 | 0.445 | 0.535 | 0.645 | 0.495 | -0.130 | | * |
| * 14 | * 130.0 | 162.5 | * 0.605 | 0.850 | 0.765 | 0.415 | 0.460 | 0.670 | 0.525 | -0.075 | | * |
| * 15 | * 135.0 | 168.8 | * 0.795 | 0.960 | 0.895 | 0.490 | 0.580 | 0.835 | 0.465 | -0.060 | | * |
| * 17 | * 145.0 | 181.3 | * 0.590 | 0.915 | 1.400 | 0.460 | 0.540 | 1.020 | 0.385 | -0.275 | | * |
| * 18 | * 150.0 | 187.5 | * 0.625 | 1.040 | 1.655 | 0.370 | 0.485 | 1.225 | 0.525 | -0.125 | | * |
| * 19 | * 0.0 | 0.0 | * 0.640 | 0.060 | 0.025 | 0.130 | 0.125 | 0.150 | 0.070 | -0.010 | | * |
| * 20 | * 0.0 | 0.0 | * 0.045 | 0.125 | 0.165 | 0.075 | 0.000 | 0.085 | -0.075 | 0.040 | | * |
| * 21 | * 40.0 | 50.0 | * 0.500 | 0.240 | 0.310 | 0.170 | 0.145 | 0.225 | 0.130 | -0.010 | | * |
| * 22 | * 80.0 | 100.0 | * 0.615 | 0.455 | 0.470 | 0.310 | 0.315 | 0.395 | 0.290 | 0.015 | | * |
| * 23 | * 100.0 | 125.0 | * 0.705 | 0.795 | 0.635 | 0.390 | 0.375 | 0.600 | 0.400 | -0.025 | | * |
| * 26 | * 130.0 | 162.5 | * 0.805 | 1.005 | 1.175 | 0.405 | 0.485 | 0.905 | 0.460 | -0.185 | | * |
| * 27 | * 145.0 | 181.3 | * 0.755 | 1.075 | 1.540 | 0.425 | 0.420 | 1.115 | 0.450 | -0.135 | | * |
| * 28 | * 150.0 | 187.5 | * 0.770 | 1.135 | 1.630 | 0.425 | 0.475 | 1.235 | 0.465 | -0.265 | | * |
| * 29 | * 155.0 | 193.8 | * 0.810 | 1.155 | 1.900 | 0.415 | 0.475 | 1.375 | 0.505 | -0.280 | | * |
| * 30 | * 160.0 | 200.0 | * 0.810 | 1.235 | 2.290 | 0.470 | 0.450 | 1.485 | 0.490 | -0.245 | | * |
| * 31 | * 165.0 | 206.3 | * 0.780 | 1.230 | 2.650 | 0.525 | 0.560 | 1.840 | 0.745 | -0.290 | | * |

VERSUCHSBALKEN R2

BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | | | |
|-------------|----|--------|-------|---|------------|-------|-------|-------|-------|-------|-------|--------|---|
| ***** | | | | | | | | | | | | | |
| * | * | | * | | | | | | | | | * | |
| * | | P | M | * | MESZSTELLE | | | | | | | | * |
| * LASTSTUFE | * | IN | IN | * | | | | | | | | | * |
| * | * | KN | KNM | * | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | * |
| * | * | | | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | | |
| * | 32 | *170.0 | 212.5 | * | 0.705 | 1.480 | 2.990 | 0.695 | 0.595 | 1.930 | 0.945 | -0.290 | * |
| * | 33 | *175.0 | 218.8 | * | 0.485 | 1.505 | 3.100 | 0.570 | 0.580 | 2.095 | 0.940 | -0.380 | * |
| * | 34 | *180.0 | 225.0 | * | 0.955 | 1.805 | 3.465 | 0.530 | 1.060 | 2.225 | 1.205 | -0.365 | * |
| * | 35 | * 0.0 | 0.0 | * | 0.585 | 0.235 | 0.235 | 0.060 | 0.230 | 0.195 | 0.100 | -0.040 | * |
| ***** | | | | | | | | | | | | | |

BETONVERFORMUNGEN IN 0/00

| * * * LASTSTUFE * * | * * P * IN * KN * | * * H * IN * KNM * | * * * * * | MESZSTELLE | | | | | | | | * * * * * |
|---------------------------------|-------------------------------|--------------------------------|-----------------------|------------|--------|--------|--------|--------|--------|--------|--------|-----------------------|
| | | | | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | |
| ***** | | | | | | | | | | | | ***** |
| * 1 | * 0.0 | * 0.0 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 3 | * 40.0 | * 50.0 | * -0.130 | -0.090 | 0.035 | -0.170 | -0.005 | -0.070 | 0.005 | -0.095 | -0.095 | * |
| * 5 | * 80.0 | * 100.0 | * -0.145 | -0.145 | 0.050 | -0.315 | -0.060 | 0.000 | -0.225 | -0.135 | -0.135 | * |
| * 6 | * 90.0 | * 112.5 | * -0.225 | -0.115 | 0.095 | -0.380 | -0.105 | -0.020 | -0.135 | -0.140 | -0.140 | * |
| * 7 | * 95.0 | * 118.8 | * -0.305 | -0.065 | 0.075 | -0.415 | -0.060 | -0.035 | -0.200 | -0.040 | -0.040 | * |
| * 8 | * 100.0 | * 125.0 | * -0.220 | -0.160 | 0.070 | -0.430 | -0.095 | -0.025 | -0.185 | -0.180 | -0.180 | * |
| * 9 | * 105.0 | * 131.3 | * -0.175 | -0.110 | -0.055 | -0.455 | -0.115 | -0.095 | -0.095 | -0.170 | -0.170 | * |
| * 10 | * 110.0 | * 137.5 | * -0.240 | -0.205 | -0.050 | -0.475 | -0.195 | -0.150 | -0.215 | -0.160 | -0.160 | * |
| * 11 | * 115.0 | * 143.8 | * -0.230 | -0.245 | -0.085 | -0.485 | -0.220 | -0.100 | -0.255 | -0.170 | -0.170 | * |
| * 12 | * 120.0 | * 150.0 | * -0.195 | -0.180 | -0.055 | -0.485 | -0.065 | -0.035 | -0.200 | -0.160 | -0.160 | * |
| * 13 | * 125.0 | * 156.3 | * -0.250 | -0.170 | 0.015 | -0.550 | -0.255 | -0.055 | -0.300 | -0.200 | -0.200 | * |
| * 14 | * 130.0 | * 162.5 | * -0.255 | -0.240 | -0.035 | -0.520 | -0.260 | -0.100 | -0.275 | -0.250 | -0.250 | * |
| * 15 | * 135.0 | * 168.8 | * -0.295 | -0.265 | -0.115 | -0.525 | -0.285 | 0.010 | -0.305 | -0.215 | -0.215 | * |
| * 17 | * 145.0 | * 181.3 | * -0.320 | -0.285 | -0.135 | -0.580 | -0.285 | -0.115 | -0.305 | -0.245 | -0.245 | * |
| * 18 | * 150.0 | * 187.5 | * -0.285 | -0.315 | -0.035 | -0.570 | -0.070 | -0.145 | -0.215 | -0.280 | -0.280 | * |
| * 19 | * 0.0 | * 0.0 | * -0.045 | -0.080 | 0.150 | -0.110 | 0.000 | 0.200 | -0.105 | 0.000 | 0.000 | * |
| * 20 | * 0.0 | * 0.0 | * -0.060 | -0.060 | 0.070 | -0.160 | -0.050 | 0.065 | -0.125 | 0.010 | 0.010 | * |
| * 21 | * 40.0 | * 50.0 | * -0.145 | -0.060 | 0.050 | -0.345 | 0.000 | 0.090 | -0.080 | -0.045 | -0.045 | * |
| * 22 | * 80.0 | * 100.0 | * -0.200 | -0.195 | 0.015 | -0.480 | -0.160 | -0.120 | -0.115 | -0.145 | -0.145 | * |
| * 23 | * 100.0 | * 125.0 | * -0.205 | -0.220 | 0.010 | -0.515 | -0.150 | -0.060 | -0.260 | -0.135 | -0.135 | * |
| * 26 | * 130.0 | * 162.5 | * -0.295 | -0.275 | -0.060 | -0.565 | -0.175 | -0.050 | -0.250 | -0.290 | -0.290 | * |
| * 27 | * 145.0 | * 181.3 | * -0.330 | -0.290 | -0.120 | -0.605 | -0.275 | -0.220 | -0.260 | -0.295 | -0.295 | * |
| * 28 | * 150.0 | * 187.5 | * -0.370 | -0.305 | -0.120 | -0.635 | -0.195 | -0.225 | -0.285 | -0.285 | -0.285 | * |
| * 29 | * 155.0 | * 193.8 | * -0.330 | -0.300 | -0.115 | -0.650 | -0.190 | -0.160 | -0.365 | -0.280 | -0.280 | * |
| * 30 | * 160.0 | * 200.0 | * -0.370 | -0.305 | -0.155 | -0.665 | -0.335 | -0.200 | -0.440 | -0.330 | -0.330 | * |
| * 31 | * 165.0 | * 206.3 | * -0.380 | -0.350 | -0.085 | -0.685 | -0.305 | -0.120 | -0.440 | -0.290 | -0.290 | * |
| ***** | | | | | | | | | | | | ***** |

BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | |
|-------------|--------|-------|---------|--------|--------|--------|--------|--------|--------|--------|----|
| ***** | | | | | | | | | | | |
| * | * | | * | | | | | | | | * |
| * | P | M | | | | | | | | | * |
| * LASTSTUFE | IN | IN | | | | | | | | | * |
| * | KN | KNM | * | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
| * | | | * | | | | | | | | * |
| ***** | | | | | | | | | | | |
| * 32 | *170.0 | 212.5 | *-0.415 | -0.385 | -0.175 | -0.720 | -0.310 | -0.290 | -0.305 | -0.340 | * |
| * 33 | *175.0 | 218.8 | *-0.445 | -0.420 | -0.140 | -0.755 | -0.330 | -0.275 | -0.440 | -0.305 | * |
| * 34 | *180.0 | 225.0 | *-0.495 | -0.420 | -0.160 | -0.760 | -0.320 | -0.240 | -0.555 | -0.345 | * |
| * 35 | * 0.0 | 0.0 | *-0.095 | -0.085 | 0.050 | -0.145 | -0.005 | 0.135 | -0.235 | 0.010 | * |
| ***** | | | | | | | | | | | |

VERSUCHSBALKEN R2

GEHESSENE RISSBREITEN IN MM

| | | | | | | | | | | | | | |
|-------|-----------|--------|-------|---|------------|-------|-------|-------|-------|-------|-------|-------|---|
| * | * | | * | | | | | | | | | * | |
| * | * | P | M | * | MESSSTELLE | | | | | | | | * |
| * | LASTSTUFE | IN | IN | * | | | | | | | | * | |
| * | * | KN | KNH | * | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | * |
| ***** | | | | | | | | | | | | | |
| * | 18 | *150.0 | 187.5 | * | 0.000 | 0.050 | 0.040 | 0.080 | 0.060 | 0.000 | 0.060 | 0.080 | * |
| * | 27 | *145.0 | 181.3 | * | 0.220 | 0.040 | 0.030 | 0.060 | 0.040 | 0.070 | 0.050 | 0.060 | * |
| * | 28 | *150.0 | 187.5 | * | 0.220 | 0.040 | 0.050 | 0.080 | 0.070 | 0.100 | 0.050 | 0.060 | * |
| * | 29 | *155.0 | 193.8 | * | 0.260 | 0.060 | 0.050 | 0.070 | 0.070 | 0.100 | 0.060 | 0.070 | * |
| * | 30 | *160.0 | 200.0 | * | 0.300 | 0.070 | 0.060 | 0.140 | 0.080 | 0.120 | 0.070 | 0.070 | * |
| * | 31 | *165.0 | 206.3 | * | 0.300 | 0.080 | 0.060 | 0.170 | 0.100 | 0.140 | 0.080 | 0.080 | * |
| * | 32 | *170.0 | 212.5 | * | 0.340 | 0.080 | 0.070 | 0.150 | 0.100 | 0.140 | 0.080 | 0.100 | * |
| * | 33 | *175.0 | 218.8 | * | 0.460 | 0.080 | 0.070 | 0.180 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| ***** | | | | | | | | | | | | | |

VERSUCHSBALKEN R2

GEMESSENE RISSBREITEN IN MM

| * | * | * | * | NFSZSTELLE | | | | | | | | * |
|-------------|--------|-------|---|------------|-------|-------|-------|-------|-------|-------|-------|---|
| * | * P | M | * | | | | | | | | | * |
| * LASTSTUFE | * IN | IN | * | | | | | | | | | * |
| * | * KN | KNH | * | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | * |
| ***** | | | | | | | | | | | | |
| * 18 | *150.0 | 187.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 27 | *145.0 | 181.3 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 28 | *150.0 | 187.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 29 | *155.0 | 193.8 | * | 0.070 | 0.070 | 0.060 | 0.040 | 0.050 | 0.000 | 0.000 | 0.000 | * |
| * 30 | *160.0 | 200.0 | * | 0.110 | 0.070 | 0.080 | 0.060 | 0.060 | 0.100 | 0.040 | 0.050 | * |
| * 31 | *165.0 | 206.3 | * | 0.120 | 0.100 | 0.100 | 0.070 | 0.080 | 0.130 | 0.050 | 0.070 | * |
| * 32 | *170.0 | 212.5 | * | 0.160 | 0.100 | 0.100 | 0.080 | 0.100 | 0.130 | 0.070 | 0.090 | * |
| * 33 | *175.0 | 218.8 | * | 0.000 | 0.000 | 0.000 | 0.100 | 0.120 | 0.000 | 0.060 | 0.000 | * |
| ***** | | | | | | | | | | | | |

VERSUCHSBALKEN R2

GEMESSENE RISSBREITEN IN MM

| * LASTSTUFF | * P | * N | * MESZSTELLE | * 17 | * 18 | * 19 | * 20 | * 21 | * 23 | * 24 | * 25 | * |
|-------------|------|------|--------------|------|------|------|------|------|------|------|------|---|
| * KN | * KN | * KN | | | | | | | | | | |

| | | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|---|
| * 18 | *150.0 | 187.5 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 27 | *145.0 | 181.3 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 28 | *150.0 | 187.5 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 29 | *155.0 | 193.8 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 30 | *160.0 | 200.0 | * 0.070 | 0.040 | 0.060 | 0.050 | 0.050 | 0.040 | 0.060 | 0.050 | 0.050 | * |
| * 31 | *165.0 | 206.3 | * 0.080 | 0.040 | 0.090 | 0.070 | 0.060 | 0.050 | 0.120 | 0.060 | 0.060 | * |
| * 32 | *170.0 | 212.5 | * 0.080 | 0.060 | 0.090 | 0.090 | 0.060 | 0.070 | 0.120 | 0.060 | 0.060 | * |
| * 33 | *175.0 | 218.8 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.080 | 0.100 | 0.000 | 0.000 | * |

VERSUCHSBALKEN R2

GEMESSENE RISSBREITEN IN MM

| | | | | | | | | | | | | | |
|-------|-----------|--------|-------|------------|-------|-------|-------|-------|-------|-------|-------|-------|---|
| * | * | * | * | MFSZSTELLE | | | | | | | | * | |
| * | * | P | M | * | | | | | | | | | * |
| * | LASTSTUFE | IN | IN | * | | | | | | | | | * |
| * | * | KN | KNM | * | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | * |
| ***** | | | | | | | | | | | | | |
| * | 18 | *150.0 | 187.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 27 | *145.0 | 181.3 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 28 | *150.0 | 187.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 29 | *155.0 | 193.8 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 30 | *160.0 | 200.0 | * | 0.060 | 0.070 | 0.070 | 0.000 | 0.060 | 0.000 | 0.000 | 0.000 | * |
| * | 31 | *165.0 | 206.3 | * | 0.070 | 0.060 | 0.090 | 0.000 | 0.060 | 0.090 | 0.070 | 0.060 | * |
| * | 32 | *170.0 | 212.5 | * | 0.070 | 0.070 | 0.100 | 0.090 | 0.080 | 0.120 | 0.090 | 0.080 | * |
| * | 33 | *175.0 | 218.8 | * | 0.100 | 0.000 | 0.110 | 0.100 | 0.080 | 0.160 | 0.130 | 0.000 | * |

VERSUCHSBALKEN R2

GEMESSENE RISSBREITEN IN MM

| * | * | * | MESSSTELLE | | | | | | | | * |
|-------------|--------|-------|------------|-------|-------|-------|-------|-------|-------|-------|---|
| * | * P | M. | * | | | | | | | | * |
| * LASTSTUFF | * IN | IN | * | | | | | | | | * |
| * | * KN | KNH | * | 34 | 35 | 36 | 37 | 38 | 39 | 40 | * |
| ***** | | | | | | | | | | | |
| * 18 | *150.0 | 187.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 27 | *145.0 | 181.3 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 28 | *150.0 | 187.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 29 | *155.0 | 193.8 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 30 | *100.0 | 200.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 31 | *165.0 | 206.3 | * | 0.050 | 0.070 | 0.050 | 0.040 | 0.050 | 0.110 | 0.070 | * |
| * 32 | *170.0 | 212.5 | * | 0.070 | 0.080 | 0.050 | 0.060 | 0.070 | 0.120 | 0.070 | * |
| * 33 | *175.0 | 218.8 | * | 0.090 | 0.000 | 0.080 | 0.100 | 0.000 | 0.000 | 0.000 | * |
| ***** | | | | | | | | | | | |

GEMESSENE DURCHBIEGUNGEN IN MM

| | | | | | | | | | | | | |
|-------------|---------|-------|---------|------------|-------|-------|-------|-------|-------|-------|-------|---|
| ***** | | | | | | | | | | | | |
| * | * | * | * | MESZSTELLE | | | | | | | * | |
| * | P | M | * | | | | | | | | * | |
| * LASTSTUFE | IN | IN | * | | | | | | | | * | |
| * | KN | KNM | * | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | * |
| ***** | | | | | | | | | | | | |
| * 1 | * 0,0 | 0,0 | * 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | 0,000 | * |
| * 2 | * 20,0 | 25,0 | * 0,715 | 0,900 | 0,985 | 0,985 | 0,995 | 1,015 | 0,960 | 0,830 | 0,830 | * |
| * 3 | * 40,0 | 50,0 | * 1,075 | 1,450 | 1,595 | 1,615 | 1,625 | 1,640 | 1,530 | 1,240 | 1,240 | * |
| * 4 | * 60,0 | 75,0 | * 1,425 | 2,000 | 2,205 | 2,235 | 2,255 | 2,265 | 2,090 | 1,620 | 1,620 | * |
| * 5 | * 80,0 | 100,0 | * 1,790 | 2,575 | 2,860 | 2,880 | 2,910 | 2,910 | 2,650 | 1,995 | 1,995 | * |
| * 6 | * 85,0 | 106,3 | * 1,880 | 2,715 | 3,015 | 3,045 | 3,070 | 3,065 | 2,795 | 2,085 | 2,085 | * |
| * 7 | * 90,0 | 112,5 | * 1,975 | 2,875 | 3,195 | 3,230 | 3,260 | 3,250 | 2,950 | 2,180 | 2,180 | * |
| * 8 | * 95,0 | 118,8 | * 2,075 | 3,050 | 3,395 | 3,435 | 3,465 | 3,465 | 3,110 | 2,290 | 2,290 | * |
| * 9 | * 100,0 | 125,0 | * 2,170 | 3,205 | 3,580 | 3,625 | 3,660 | 3,635 | 3,280 | 2,395 | 2,395 | * |
| * 10 | * 110,0 | 137,5 | * 2,320 | 3,460 | 3,870 | 3,915 | 3,950 | 3,925 | 3,530 | 2,550 | 2,550 | * |
| * 11 | * 120,0 | 150,0 | * 2,500 | 3,770 | 4,230 | 4,290 | 4,320 | 4,285 | 3,835 | 2,730 | 2,730 | * |
| * 12 | * 130,0 | 162,5 | * 2,725 | 4,170 | 4,685 | 4,770 | 4,805 | 4,750 | 4,225 | 2,955 | 2,955 | * |
| * 13 | * 140,0 | 175,0 | * 2,945 | 4,580 | 5,170 | 5,285 | 5,320 | 5,195 | 4,630 | 3,175 | 3,175 | * |
| * 14 | * 150,0 | 187,5 | * 3,245 | 5,155 | 5,860 | 6,000 | 6,040 | 5,870 | 5,185 | 3,470 | 3,470 | * |
| * 15 | * 155,0 | 193,8 | * 3,485 | 5,680 | 6,650 | 6,760 | 6,725 | 6,555 | 5,710 | 3,725 | 3,725 | * |
| * 16 | * 0,0 | 0,0 | * 0,615 | 1,035 | 1,135 | 1,050 | 1,040 | 1,060 | 0,880 | 0,595 | 0,595 | * |
| * 17 | * 0,0 | 0,0 | * 0,665 | 0,920 | 1,060 | 1,020 | 1,040 | 1,050 | 0,905 | 0,610 | 0,610 | * |
| * 18 | * 20,0 | 25,0 | * 1,270 | 1,710 | 1,930 | 1,905 | 1,935 | 1,980 | 1,780 | 1,395 | 1,395 | * |
| * 19 | * 40,0 | 50,0 | * 1,620 | 2,250 | 2,530 | 2,520 | 2,560 | 2,600 | 2,335 | 1,795 | 1,795 | * |
| * 20 | * 60,0 | 75,0 | * 1,930 | 2,755 | 3,100 | 3,095 | 3,140 | 3,170 | 2,845 | 2,135 | 2,135 | * |
| * 21 | * 80,0 | 100,0 | * 2,220 | 3,245 | 3,655 | 3,660 | 3,705 | 3,730 | 3,335 | 2,440 | 2,440 | * |
| * 22 | * 90,0 | 112,5 | * 2,365 | 3,490 | 3,930 | 3,945 | 3,995 | 4,010 | 3,590 | 2,590 | 2,590 | * |
| * 23 | * 0,0 | 0,0 | * 0,660 | 0,900 | 1,030 | 0,990 | 1,010 | 1,025 | 0,875 | 0,590 | 0,590 | * |
| * 24 | * 90,0 | 112,5 | * 2,360 | 3,475 | 3,910 | 3,930 | 3,975 | 3,995 | 3,565 | 2,580 | 2,580 | * |
| * 25 | * 100,0 | 125,0 | * 2,520 | 3,770 | 4,260 | 4,270 | 4,320 | 4,330 | 3,870 | 2,760 | 2,760 | * |
| ***** | | | | | | | | | | | | |

GEMESSENE DURCHBIEGUNGEN IN MM

| | | | | | | | | | | | | |
|-------------|--------|-------|---|------------|-------|-------|-------|-------|-------|-------|-------|---|
| ***** | | | | | | | | | | | | |
| * | * | | * | | | | | | | | | * |
| * | P | H | * | MESSSTELLE | | | | | | | | * |
| * LASTSTUFE | IN | IN | * | | | | | | | | | * |
| * | KN | KNM | * | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | * |
| ***** | | | | | | | | | | | | |
| * 26 | *110.0 | 137.5 | * | 2.670 | 4.045 | 4.600 | 4.605 | 4.645 | 4.670 | 4.150 | 2.920 | * |
| * 27 | *120.0 | 150.0 | * | 2.845 | 4.355 | 5.010 | 5.045 | 5.060 | 5.110 | 4.490 | 3.105 | * |
| * 28 | *130.0 | 162.5 | * | 3.080 | 4.740 | 5.460 | 5.545 | 5.585 | 5.515 | 4.880 | 3.325 | * |
| * 29 | *140.0 | 175.0 | * | 3.280 | 5.210 | 5.975 | 6.105 | 6.135 | 6.015 | 5.295 | 3.540 | * |
| * 30 | *150.0 | 187.5 | * | 3.540 | 5.725 | 6.545 | 6.695 | 6.735 | 6.610 | 5.750 | 3.785 | * |
| * 31 | *160.0 | 200.0 | * | 3.850 | 6.345 | 7.275 | 7.470 | 7.490 | 7.305 | 6.360 | 4.085 | * |
| * 32 | *165.0 | 206.3 | * | 4.015 | 6.685 | 7.670 | 7.915 | 7.925 | 7.725 | 6.705 | 4.255 | * |
| * 33 | *170.0 | 212.5 | * | 4.265 | 7.190 | 8.290 | 8.585 | 8.615 | 8.365 | 7.280 | 4.585 | * |
| * 34 | * 0.0 | 0.0 | * | 0.810 | 1.215 | 1.370 | 1.360 | 1.375 | 1.395 | 1.190 | 0.805 | * |
| ***** | | | | | | | | | | | | |

VERSUCHSBALKEN R3

GEMESSENE FUGENSPALTBREITEN IN MM

VERSUCHSBALKEN R3

GENESSENE FUGENSPALTBREITEN IN MM

| | | | | |
|-------------|------|--------|--------------|---------|
| ***** | | | | |
| * | * | | * | * |
| * | * P | M | *MESZSTELLE* | |
| * LASTSTUFE | * IN | IN | * | * |
| * | * KI | KNM | * 10 | * |
| ***** | | | | |
| * | 26 | *110.0 | 137.5 | * 0.047 |
| * | 27 | *120.0 | 150.0 | * 0.104 |
| * | 28 | *130.0 | 162.5 | * 0.195 |
| * | 29 | *140.0 | 175.0 | * 0.296 |
| * | 30 | *150.0 | 187.5 | * 0.410 |
| * | 31 | *160.0 | 200.0 | * 0.555 |
| * | 32 | *165.0 | 206.3 | * 0.642 |
| * | 33 | *170.0 | 212.5 | * 0.767 |
| * | 34 | * 0.0 | 0.0 | * 0.004 |
| ***** | | | | |

VERSUCHSBALKEN R3

GEMESSENE SPANNSTAHLDEHNUNGEN IN MM/M

| ***** | | | | | | | | | |
|-----------|---|-------|-------|---|------------|-------|--------|-------|-------|
| LASTSTUFE | * | P | M | * | MESSSTELLE | | | | |
| | * | IN | IN | * | | | | | |
| | * | KN | KNM | * | 11 | 12 | 13 | 14 | 15 |
| ***** | | | | | | | | | |
| 1 | * | 0.0 | 0.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2 | * | 20.0 | 25.0 | * | 0.032 | 0.029 | 0.030 | 0.026 | 0.033 |
| 3 | * | 40.0 | 50.0 | * | 0.064 | 0.064 | 0.069 | 0.060 | 0.063 |
| 4 | * | 60.0 | 75.0 | * | 0.103 | 0.104 | 0.114 | 0.100 | 0.098 |
| 5 | * | 80.0 | 100.0 | * | 0.145 | 0.148 | 0.163 | 0.146 | 0.138 |
| 6 | * | 85.0 | 106.3 | * | 0.157 | 0.161 | 0.176 | 0.158 | 0.148 |
| 7 | * | 90.0 | 112.5 | * | 0.168 | 0.172 | 0.189 | 0.168 | 0.158 |
| 8 | * | 95.0 | 118.8 | * | 0.182 | 0.187 | 0.206 | 0.182 | 0.172 |
| 9 | * | 100.0 | 125.0 | * | 0.193 | 0.202 | 0.223 | 0.200 | 0.182 |
| 10 | * | 110.0 | 137.5 | * | 0.212 | 0.223 | 0.258 | 0.217 | 0.200 |
| 11 | * | 120.0 | 150.0 | * | 0.238 | 0.250 | 0.364 | 0.243 | 0.220 |
| 12 | * | 130.0 | 162.5 | * | 0.265 | 0.273 | 0.503 | 0.263 | 0.242 |
| 13 | * | 140.0 | 175.0 | * | 0.298 | 0.320 | 0.654 | 0.324 | 0.268 |
| 14 | * | 150.0 | 187.5 | * | 0.333 | 0.434 | 0.849 | 0.389 | 0.319 |
| 15 | * | 155.0 | 193.8 | * | 0.367 | 0.570 | 0.968 | 0.506 | 0.348 |
| 16 | * | 0.0 | 0.0 | * | 0.051 | 0.038 | 0.002 | 0.029 | 0.020 |
| 17 | * | 0.0 | 0.0 | * | 0.017 | 0.009 | -0.005 | 0.017 | 0.020 |
| 18 | * | 20.0 | 25.0 | * | 0.047 | 0.037 | 0.021 | 0.044 | 0.047 |
| 19 | * | 40.0 | 50.0 | * | 0.082 | 0.073 | 0.060 | 0.080 | 0.079 |
| 20 | * | 60.0 | 75.0 | * | 0.123 | 0.120 | 0.105 | 0.122 | 0.117 |
| 21 | * | 80.0 | 100.0 | * | 0.163 | 0.167 | 0.149 | 0.171 | 0.158 |
| 22 | * | 90.0 | 112.5 | * | 0.188 | 0.194 | 0.171 | 0.198 | 0.178 |
| 23 | * | 0.0 | 0.0 | * | 0.013 | 0.003 | -0.010 | 0.012 | 0.016 |
| 24 | * | 90.0 | 112.5 | * | 0.186 | 0.190 | 0.171 | 0.198 | 0.179 |
| 25 | * | 100.0 | 125.0 | * | 0.220 | 0.234 | 0.204 | 0.232 | 0.200 |
| ***** | | | | | | | | | |

GEMESSENE SPANSTAHLDEHNUNGEN IN MM/M

| | | | | | | | | | |
|-------------|------|--------|-------|------------|-------|-------|-------|-------|---|
| ***** | | | | | | | | | |
| * | * | | * | | | | | | * |
| * | * P | M | * | MESZSTELLE | | | | | * |
| * LASTSTUFE | * IN | IN | * | | | | | | * |
| * | * KN | KNM | * | 11 | 12 | 13 | 14 | 15 | * |
| ***** | | | | | | | | | |
| * | 26 | *110.0 | 137.5 | * 0.249 | 0.297 | 0.266 | 0.285 | 0.226 | * |
| * | 27 | *120.0 | 150.0 | * 0.277 | 0.358 | 0.376 | 0.327 | 0.252 | * |
| * | 28 | *130.0 | 162.5 | * 0.302 | 0.417 | 0.502 | 0.379 | 0.275 | * |
| * | 29 | *140.0 | 175.0 | * 0.355 | 0.484 | 0.676 | 0.436 | 0.302 | * |
| * | 30 | *150.0 | 187.5 | * 0.395 | 0.564 | 0.876 | 0.504 | 0.336 | * |
| * | 31 | *160.0 | 200.0 | * 0.477 | 0.642 | 1.085 | 0.608 | 0.380 | * |
| * | 32 | *165.0 | 206.3 | * 0.498 | 0.680 | 1.194 | 0.660 | 0.411 | * |
| * | 33 | *170.0 | 212.5 | * 0.557 | 0.742 | 1.333 | 0.733 | 0.535 | * |
| * | 34 | * 0.0 | 0.0 | * 0.035 | 0.022 | 0.039 | 0.023 | 0.021 | * |
| ***** | | | | | | | | | |

VERSUCHSBALKEN R3

BETONVERFORMUNGEN IN 0/00

* * * * *

* * P M * MESZSTELLE *

* LASTSTUFE * IN IN * * * * *

* * KN KNM * 1 2 3 4 5 6 7 8 *

* * * * *

* 1 * 0.0 0.0 * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 *

* 3 * 40.0 50.0 * 0.090 0.085 0.085 0.080 0.085 0.075 0.080 0.065 *

* 4 * 60.0 75.0 * 0.105 0.095 0.095 0.110 0.110 0.095 0.090 0.075 *

* 6 * 85.0 106.3 * 0.160 0.150 0.140 0.140 0.145 0.130 0.130 0.125 *

* 7 * 90.0 112.5 * 0.165 0.175 0.159 0.170 0.165 0.145 0.160 0.165 *

* 8 * 95.0 118.8 * 0.170 0.195 0.170 0.175 0.180 0.170 0.160 0.150 *

* 9 * 100.0 125.0 * 0.175 0.180 0.180 0.185 0.185 0.160 0.170 0.175 *

* 10 * 110.0 137.5 * 0.245 0.225 0.235 0.225 0.220 0.195 0.215 0.195 *

* 11 * 120.0 150.0 * 0.220 0.240 0.245 0.200 0.210 0.190 0.190 0.170 *

* 12 * 130.0 162.5 * 0.240 0.270 0.300 0.240 0.270 0.230 0.230 0.210 *

* 13 * 140.0 175.0 * 0.280 0.200 0.355 0.260 0.305 0.250 0.270 0.240 *

* 14 * 150.0 187.5 * 0.275 0.310 0.395 0.250 0.330 0.225 0.230 0.200 *

* 15 * 155.0 193.8 * 0.305 0.330 0.795 0.260 0.390 0.235 0.260 0.225 *

* 16 * 0.0 0.0 * 0.000 0.025 0.035 -0.015 0.035 0.015 0.025 0.025 *

* 17 * 0.0 0.0 * 0.040 0.050 0.040 0.050 0.075 0.045 0.065 0.050 *

* 24 * 90.0 112.5 * 0.150 0.170 0.210 0.145 0.195 0.135 0.190 0.165 *

* 25 * 100.0 125.0 * 0.180 0.175 0.275 0.175 0.225 0.150 0.200 0.180 *

* 26 * 110.0 137.5 * 0.200 0.240 0.420 0.210 0.290 0.200 0.240 0.205 *

* 27 * 120.0 150.0 * 0.205 0.230 0.455 0.185 0.275 0.170 0.215 0.180 *

* 28 * 130.0 162.5 * 0.230 0.250 0.565 0.215 0.310 0.180 0.215 0.195 *

* 29 * 140.0 175.0 * 0.245 0.280 0.655 0.235 0.350 0.185 0.235 0.190 *

* 30 * 150.0 187.5 * 0.255 0.260 0.735 0.205 0.335 0.170 0.200 0.175 *

* 31 * 160.0 200.0 * 0.305 0.330 0.905 0.280 0.465 0.225 0.265 0.230 *

* 32 * 165.0 206.3 * 0.375 0.365 1.000 0.290 0.530 0.230 0.275 0.245 *

* 33 * 170.0 212.5 * 0.365 0.340 1.020 0.295 0.610 0.200 0.245 0.190 *

* * * * *

VERSUCHSBALKEN R3

BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | | | |
|-------|-----------|--------|-------|---|------------|-------|-------|-------|-------|-------|-------|-------|---|
| ***** | | | | | | | | | | | | | |
| * | * | | * | | | | | | | | | * | |
| * | * | P | M | * | MESZSTELLE | | | | | | | | * |
| * | LASTSTUFE | IN | IN | * | | | | | | | | | * |
| * | * | KN | KN | * | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | * |
| * | * | | | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | | |
| * | 1 | * 0.0 | 0.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 3 | * 40.0 | 50.0 | * | 0.085 | 0.090 | 0.085 | 0.075 | 0.090 | 0.100 | 0.090 | 0.105 | * |
| * | 4 | * 60.0 | 75.0 | * | 0.095 | 0.115 | 0.105 | 0.095 | 0.115 | 0.130 | 0.105 | 0.125 | * |
| * | 6 | * 85.0 | 106.3 | * | 0.155 | 0.190 | 0.145 | 0.130 | 0.170 | 0.175 | 0.135 | 0.160 | * |
| * | 7 | * 90.0 | 112.5 | * | 0.175 | 0.220 | 0.165 | 0.145 | 0.150 | 0.190 | 0.150 | 0.170 | * |
| * | 8 | * 95.0 | 118.8 | * | 0.175 | 0.235 | 0.180 | 0.155 | 0.185 | 0.190 | 0.155 | 0.200 | * |
| * | 9 | *100.0 | 125.0 | * | 0.160 | 0.250 | 0.185 | 0.160 | 0.205 | 0.210 | 0.175 | 0.205 | * |
| * | 10 | *110.0 | 137.5 | * | 0.215 | 0.375 | 0.195 | 0.185 | 0.235 | 0.250 | 0.195 | 0.230 | * |
| * | 11 | *120.0 | 150.0 | * | 0.180 | 0.660 | 0.160 | 0.155 | 0.205 | 0.220 | 0.190 | 0.195 | * |
| * | 12 | *130.0 | 162.5 | * | 0.205 | 1.270 | 0.210 | 0.200 | 0.290 | 0.285 | 0.235 | 0.290 | * |
| * | 13 | *140.0 | 175.0 | * | 0.200 | 2.070 | 0.210 | 0.215 | 0.315 | 0.290 | 0.270 | 0.305 | * |
| * | 14 | *150.0 | 187.5 | * | 0.190 | 3.230 | 0.195 | 0.185 | 0.270 | 0.325 | 0.515 | 0.370 | * |
| * | 15 | *155.0 | 193.8 | * | 0.205 | 4.000 | 0.225 | 0.210 | 0.315 | 0.370 | 0.555 | 0.650 | * |
| * | 16 | * 0.0 | 0.0 | * | 0.050 | 0.035 | 0.045 | 0.035 | 0.025 | 0.025 | 0.030 | 0.060 | * |
| * | 17 | * 0.0 | 0.0 | * | 0.050 | 0.055 | 0.090 | 0.050 | 0.100 | 0.070 | 0.055 | 0.090 | * |
| * | 24 | * 90.0 | 112.5 | * | 0.165 | 0.230 | 0.190 | 0.115 | 0.235 | 0.195 | 0.180 | 0.200 | * |
| * | 25 | *100.0 | 125.0 | * | 0.165 | 0.285 | 0.200 | 0.150 | 0.255 | 0.230 | 0.220 | 0.260 | * |
| * | 26 | *110.0 | 137.5 | * | 0.210 | 0.495 | 0.250 | 0.175 | 0.290 | 0.235 | 0.290 | 0.350 | * |
| * | 27 | *120.0 | 150.0 | * | 0.170 | 0.950 | 0.220 | 0.160 | 0.290 | 0.265 | 0.320 | 0.410 | * |
| * | 28 | *130.0 | 162.5 | * | 0.150 | 1.725 | 0.220 | 0.170 | 0.310 | 0.325 | 0.405 | 0.490 | * |
| * | 29 | *140.0 | 175.0 | * | 0.165 | 2.685 | 0.210 | 0.180 | 0.315 | 0.330 | 0.450 | 0.570 | * |
| * | 30 | *150.0 | 187.5 | * | 0.165 | 3.665 | 0.200 | 0.155 | 0.290 | 0.325 | 0.495 | 0.650 | * |
| * | 31 | *160.0 | 200.0 | * | 0.220 | 4.885 | 0.245 | 0.220 | 0.370 | 0.400 | 0.600 | 0.850 | * |
| * | 32 | *165.0 | 206.3 | * | 0.225 | 5.715 | 0.250 | 0.220 | 0.380 | 0.420 | 0.605 | 0.920 | * |
| * | 33 | *170.0 | 212.5 | * | 0.160 | 6.650 | 0.205 | 0.200 | 0.330 | 0.395 | 0.600 | 0.970 | * |
| ***** | | | | | | | | | | | | | |

VERSUCHSBALKEN P3

BETONVERFORMUNGEN IN 0/00

* * * * *

* P M MESZSTELLE *

* LASTSTUFE * IM IN * 17 18 19 20 21 22 23 24 *

* KN KNM * 17 18 19 20 21 22 23 24 *

* * * * *

* * * * *

* 1 * 0.0 0.0 * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 *

* 3 * 40.0 50.0 * 0.085 0.080 0.095 -0.095 -0.050 -0.080 -0.060 -0.110 *

* 4 * 60.0 75.0 * 0.095 0.085 0.100 -0.130 -0.140 -0.145 -0.115 -0.220 *

* 6 * 85.0 106.3 * 0.175 0.155 0.160 -0.170 -0.155 -0.175 -0.165 -0.280 *

* 7 * 90.0 112.5 * 0.165 0.145 0.160 -0.205 -0.200 -0.200 -0.185 -0.300 *

* 8 * 95.0 118.8 * 0.155 0.150 0.160 -0.240 -0.225 -0.215 -0.200 -0.340 *

* 9 * 100.0 125.0 * 0.175 0.165 0.185 -0.265 -0.230 -0.265 -0.250 -0.365 *

* 10 * 110.0 137.5 * 0.215 0.185 0.220 -0.260 -0.265 -0.255 -0.221 -0.360 *

* 11 * 120.0 150.0 * 0.215 0.200 0.225 -0.305 -0.310 -0.300 -0.275 -0.435 *

* 12 * 130.0 162.5 * 0.245 0.220 0.280 -0.325 -0.335 -0.325 -0.290 -0.445 *

* 13 * 140.0 175.0 * 0.315 0.235 0.350 -0.355 -0.360 -0.320 -0.285 -0.470 *

* 14 * 150.0 187.5 * 0.475 0.220 0.375 -0.405 -0.415 -0.370 -0.350 -0.560 *

* 15 * 155.0 193.8 * 0.550 0.260 0.435 -0.435 -0.445 -0.410 -0.375 -0.570 *

* 16 * 0.0 0.0 * 0.035 0.015 0.025 -0.115 -0.120 -0.100 -0.065 -0.170 *

* 17 * 0.0 0.0 * 0.055 0.040 0.075 -0.075 -0.075 -0.060 -0.035 -0.160 *

* 24 * 90.0 112.5 * 0.210 0.130 0.245 -0.290 -0.290 -0.230 -0.235 -0.435 *

* 25 * 100.0 125.0 * 0.245 0.160 0.290 -0.300 -0.300 -0.260 -0.270 -0.460 *

* 26 * 110.0 137.5 * 0.270 0.170 0.320 -0.315 -0.320 -0.275 -0.280 -0.470 *

* 27 * 120.0 150.0 * 0.345 0.170 0.330 -0.370 -0.380 -0.340 -0.330 -0.520 *

* 28 * 130.0 162.5 * 0.445 0.210 0.410 -0.395 -0.400 -0.350 -0.345 -0.560 *

* 29 * 140.0 175.0 * 0.505 0.220 0.465 -0.445 -0.415 -0.380 -0.380 -0.580 *

* 30 * 150.0 187.5 * 0.570 0.225 0.575 -0.475 -0.465 -0.440 -0.435 -0.640 *

* 31 * 160.0 200.0 * 0.680 0.290 0.785 -0.470 -0.480 -0.425 -0.425 -0.630 *

* 32 * 165.0 206.3 * 0.705 0.315 0.830 -0.465 -0.485 -0.435 -0.450 -0.670 *

* 33 * 170.0 212.5 * 0.655 0.310 0.825 -0.520 -0.525 -0.495 -0.485 -0.705 *

* * * * *

* * * * *

VERSUCHSBALKEN R3

BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | | | |
|-------|-----------|---------|-------|---|------------|--------|--------|--------|--------|-------|--------|-------|---|
| ***** | | | | | | | | | | | | | |
| * | * | | * | | | | | | | | | * | |
| * | * | P | N | * | MESSSTELLE | | | | | | | | * |
| * | LASTSTUFE | IN | IN | * | | | | | | | | | * |
| * | * | KN | KN | * | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | * |
| * | * | | | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | | |
| * | 1 | * 0.0 | 0.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 3 | * 40.0 | 50.0 | * | -0.065 | -0.065 | -0.060 | -0.050 | 0.080 | 0.070 | 0.060 | 0.085 | * |
| * | 4 | * 60.0 | 75.0 | * | -0.110 | -0.130 | -0.125 | -0.135 | 0.100 | 0.130 | 0.070 | 0.095 | * |
| * | 6 | * 85.0 | 100.3 | * | -0.160 | -0.175 | -0.185 | -0.175 | 0.170 | 0.165 | 0.140 | 0.145 | * |
| * | 7 | * 90.0 | 112.5 | * | -0.190 | -0.205 | -0.195 | -0.210 | 0.165 | 0.170 | 0.130 | 0.150 | * |
| * | 8 | * 95.0 | 118.8 | * | -0.225 | -0.220 | -0.230 | -0.240 | 0.175 | 0.165 | 0.150 | 0.185 | * |
| * | 9 | * 100.0 | 125.0 | * | -0.230 | -0.245 | -0.245 | -0.255 | 0.190 | 0.210 | 0.165 | 0.170 | * |
| * | 10 | * 110.0 | 137.5 | * | -0.255 | -0.255 | -0.245 | -0.275 | 0.225 | 0.250 | 0.210 | 0.205 | * |
| * | 11 | * 120.0 | 150.0 | * | -0.290 | -0.315 | -0.305 | -0.365 | 0.235 | 0.270 | 0.230 | 0.255 | * |
| * | 12 | * 130.0 | 162.5 | * | -0.330 | -0.355 | -0.330 | -0.395 | 0.255 | 0.280 | 0.265 | 0.275 | * |
| * | 13 | * 140.0 | 175.0 | * | -0.350 | -0.355 | -0.350 | -0.380 | 0.295 | 0.315 | 0.300 | 0.335 | * |
| * | 14 | * 150.0 | 187.5 | * | -0.430 | -0.430 | -0.415 | -0.435 | 0.305 | 0.325 | 0.310 | 0.385 | * |
| * | 15 | * 155.0 | 193.8 | * | -0.445 | -0.450 | -0.420 | -0.475 | 0.340 | 0.310 | 0.295 | 0.725 | * |
| * | 16 | * 0.0 | 0.0 | * | -0.090 | -0.080 | -0.075 | -0.110 | -0.005 | 0.020 | -0.010 | 0.055 | * |
| * | 17 | * 0.0 | 0.0 | * | -0.075 | -0.080 | -0.050 | -0.095 | 0.045 | 0.095 | 0.045 | 0.115 | * |
| * | 24 | * 90.0 | 112.5 | * | -0.305 | -0.310 | -0.300 | -0.340 | 0.160 | 0.195 | 0.140 | 0.270 | * |
| * | 25 | * 100.0 | 125.0 | * | -0.330 | -0.340 | -0.320 | -0.360 | 0.205 | 0.240 | 0.195 | 0.325 | * |
| * | 26 | * 110.0 | 137.5 | * | -0.360 | -0.360 | -0.315 | -0.380 | 0.205 | 0.240 | 0.200 | 0.400 | * |
| * | 27 | * 120.0 | 150.0 | * | -0.400 | -0.405 | -0.390 | -0.450 | 0.220 | 0.240 | 0.185 | 0.455 | * |
| * | 28 | * 130.0 | 162.5 | * | -0.445 | -0.430 | -0.405 | -0.465 | 0.260 | 0.285 | 0.235 | 0.570 | * |
| * | 29 | * 140.0 | 175.0 | * | -0.455 | -0.455 | -0.445 | -0.475 | 0.270 | 0.260 | 0.235 | 0.625 | * |
| * | 30 | * 150.0 | 187.5 | * | -0.510 | -0.520 | -0.500 | -0.565 | 0.300 | 0.300 | 0.250 | 0.745 | * |
| * | 31 | * 160.0 | 200.0 | * | -0.520 | -0.510 | -0.470 | -0.515 | 0.345 | 0.330 | 0.275 | 0.915 | * |
| * | 32 | * 165.0 | 200.3 | * | -0.535 | -0.540 | -0.510 | -0.565 | 0.375 | 0.375 | 0.305 | 0.985 | * |
| * | 33 | * 170.0 | 212.5 | * | -0.595 | -0.600 | -0.555 | -0.640 | 0.385 | 0.385 | 0.295 | 0.995 | * |
| ***** | | | | | | | | | | | | | |

VERSUCHSBALKEN R3

BETONVERFORMUNGEN IN 0/00

* * *

* * P M * MESZSTELLE *

* LASTSTUFE * IN IN * *

* * KN KNH * 33 34 35 36 37 38 39 40 *

* * *

* 1 * 0.0 0.0 * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 *

* 3 * 40.0 50.0 * 0.070 0.075 0.075 0.125 0.055 0.100 0.060 0.065 *

* 4 * 60.0 75.0 * 0.070 0.090 0.095 0.145 0.065 0.144 0.105 0.090 *

* 6 * 85.0 106.3 * 0.110 0.150 0.165 0.200 0.155 0.190 0.145 0.140 *

* 7 * 90.0 112.5 * 0.120 0.145 0.140 0.200 0.110 0.185 0.130 0.130 *

* 8 * 95.0 118.8 * 0.155 0.190 0.165 0.210 0.125 0.205 0.130 0.115 *

* 9 * 100.0 125.0 * 0.180 0.165 0.145 0.205 0.130 0.240 0.155 0.145 *

* 10 * 110.0 137.5 * 0.190 0.200 0.195 0.265 0.155 0.365 0.165 0.185 *

* 11 * 120.0 150.0 * 0.215 0.240 0.230 0.290 0.170 0.670 0.180 0.210 *

* 12 * 130.0 162.5 * 0.230 0.240 0.230 0.285 0.175 1.265 0.175 0.205 *

* 13 * 140.0 175.0 * 0.265 0.290 0.265 0.315 0.195 2.090 0.185 0.235 *

* 14 * 150.0 187.5 * 0.200 0.315 0.235 0.275 0.155 3.245 0.150 0.210 *

* 15 * 155.0 193.8 * 0.130 0.435 0.235 0.280 0.145 3.890 0.160 0.210 *

* 16 * 0.0 0.0 * -0.035 -0.005 0.000 0.055 -0.020 0.005 -0.020 -0.010 *

* 17 * 0.0 0.0 * 0.020 0.050 0.055 0.105 0.005 0.020 0.005 0.005 *

* 24 * 90.0 112.5 * 0.070 0.190 0.155 0.210 0.135 0.200 0.140 0.140 *

* 25 * 100.0 125.0 * 0.095 0.235 0.190 0.255 0.165 0.285 0.155 0.160 *

* 26 * 110.0 137.5 * 0.090 0.285 0.195 0.260 0.160 0.405 0.165 0.165 *

* 27 * 120.0 150.0 * 0.070 0.290 0.175 0.255 0.135 0.875 0.145 0.160 *

* 28 * 130.0 162.5 * 0.095 0.350 0.215 0.270 0.155 1.605 0.175 0.195 *

* 29 * 140.0 175.0 * 0.090 0.370 0.210 0.270 0.160 2.465 0.160 0.205 *

* 30 * 150.0 187.5 * 0.060 0.400 0.205 0.260 0.155 3.405 0.140 0.180 *

* 31 * 160.0 200.0 * 0.215 0.455 0.225 0.290 0.155 4.745 0.160 0.210 *

* 32 * 165.0 206.3 * 0.295 0.475 0.245 0.280 0.160 5.590 0.170 0.220 *

* 33 * 170.0 212.5 * 0.340 0.490 0.225 0.260 0.125 6.535 0.110 0.190 *

VERSUCHSBALKEN R3

BETONVERFORMUNGEN IN 0/00

* * *

* * P M * MESZSTELLE *

* LASTSTUFE * IN IN * * *

* * KN KHM * 41 42 43 44 45 46 47 48 *

* * * *

* 1 * 0.0 0.0 * 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 *

* 3 * 40.0 50.0 * 0.080 0.075 0.075 0.095 0.045 0.040 0.050 -0.120 *

* 4 * 60.0 75.0 * 0.105 0.110 0.080 0.085 0.070 0.065 0.090 -0.185 *

* 6 * 85.0 106.3 * 0.150 0.170 0.160 0.155 0.130 0.135 0.140 -0.225 *

* 7 * 90.0 112.5 * 0.140 0.150 0.140 0.150 0.150 0.155 0.165 -0.260 *

* 8 * 95.0 118.8 * 0.145 0.140 0.155 0.155 0.135 0.145 0.185 -0.265 *

* 9 * 100.0 125.0 * 0.170 0.185 0.175 0.195 0.160 0.160 0.165 -0.290 *

* 10 * 110.0 137.5 * 0.200 0.225 0.200 0.235 0.205 0.200 0.215 -0.310 *

* 11 * 120.0 150.0 * 0.225 0.240 0.220 0.210 0.215 0.210 0.225 -0.340 *

* 12 * 130.0 162.5 * 0.240 0.275 0.235 0.275 0.260 0.230 0.285 -0.365 *

* 13 * 140.0 175.0 * 0.265 0.350 0.290 0.290 0.355 0.245 0.380 -0.380 *

* 14 * 150.0 187.5 * 0.225 0.400 0.345 0.255 0.665 0.190 0.545 -0.455 *

* 15 * 155.0 193.8 * 0.240 0.450 0.400 0.775 0.735 0.250 0.635 -0.495 *

* 16 * 0.0 0.0 * -0.005 0.025 0.005 0.020 0.005 -0.030 -0.030 -0.135 *

* 17 * 0.0 0.0 * 0.020 0.035 0.030 0.060 0.045 0.010 0.040 -0.160 *

* 24 * 90.0 112.5 * 0.175 0.245 0.160 0.270 0.270 0.135 0.260 -0.405 *

* 25 * 100.0 125.0 * 0.190 0.260 0.170 0.310 0.340 0.155 0.325 -0.425 *

* 26 * 110.0 137.5 * 0.210 0.300 0.195 0.390 0.395 0.170 0.375 -0.445 *

* 27 * 120.0 150.0 * 0.180 0.305 0.215 0.460 0.440 0.140 0.415 -0.500 *

* 28 * 130.0 162.5 * 0.220 0.375 0.275 0.575 0.555 0.175 0.500 -0.485 *

* 29 * 140.0 175.0 * 0.205 0.390 0.275 0.685 0.660 0.220 0.615 -0.530 *

* 30 * 150.0 187.5 * 0.215 0.440 0.340 0.805 0.740 0.230 0.670 -0.575 *

* 31 * 160.0 200.0 * 0.240 0.505 0.425 1.000 0.860 0.260 0.740 -0.615 *

* 32 * 165.0 206.3 * 0.240 0.565 0.455 1.075 0.905 0.265 0.765 -0.625 *

* 33 * 170.0 212.5 * 0.210 0.670 0.455 1.105 0.940 0.245 0.775 -0.665 *

VERSUCHSHALKEN R3

BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | | | |
|-------|-----------|-------|-------|---|------------|--------|--------|--------|--------|--------|--------|--------|---|
| ***** | | | | | | | | | | | | | |
| * | * | | * | | | | | | | | | * | |
| * | | P | M | * | MESSSTELLE | | | | | | | | * |
| * | LASTSTUFE | IN | IN | * | | | | | | | | | * |
| * | | KN | KNd | * | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | * |
| * | * | | | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | | |
| * | 1 | 0.0 | 0.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 3 | 40.0 | 50.0 | * | -0.080 | -0.080 | -0.050 | -0.150 | -0.120 | 0.050 | -0.060 | -0.070 | * |
| * | 4 | 60.0 | 75.0 | * | -0.150 | -0.145 | -0.120 | -0.250 | -0.150 | -0.020 | -0.135 | -0.145 | * |
| * | 6 | 85.0 | 106.3 | * | -0.185 | -0.180 | -0.160 | -0.320 | -0.210 | -0.110 | -0.185 | -0.185 | * |
| * | 7 | 90.0 | 112.5 | * | -0.210 | -0.200 | -0.185 | -0.350 | -0.200 | -0.130 | -0.205 | -0.205 | * |
| * | 8 | 95.0 | 118.8 | * | -0.235 | -0.230 | -0.230 | -0.395 | -0.285 | -0.070 | -0.235 | -0.265 | * |
| * | 9 | 100.0 | 125.0 | * | -0.245 | -0.240 | -0.230 | -0.395 | -0.290 | -0.065 | -0.255 | -0.245 | * |
| * | 10 | 110.0 | 137.5 | * | -0.260 | -0.260 | -0.255 | -0.435 | -0.305 | -0.110 | -0.255 | -0.260 | * |
| * | 11 | 120.0 | 150.0 | * | -0.300 | -0.295 | -0.290 | -0.465 | -0.375 | -0.190 | -0.300 | -0.320 | * |
| * | 12 | 130.0 | 162.5 | * | -0.320 | -0.330 | -0.325 | -0.515 | -0.345 | -0.245 | -0.340 | -0.335 | * |
| * | 13 | 140.0 | 175.0 | * | -0.335 | -0.355 | -0.350 | -0.545 | -0.395 | -0.205 | -0.350 | -0.350 | * |
| * | 14 | 150.0 | 187.5 | * | -0.400 | -0.425 | -0.420 | -0.610 | -0.465 | -0.320 | -0.425 | -0.420 | * |
| * | 15 | 155.0 | 193.8 | * | -0.425 | -0.455 | -0.460 | -0.655 | -0.535 | -0.305 | -0.460 | -0.450 | * |
| * | 16 | 0.0 | 0.0 | * | -0.115 | -0.100 | -0.100 | -0.195 | -0.150 | 0.010 | -0.090 | -0.080 | * |
| * | 17 | 0.0 | 0.0 | * | -0.090 | -0.070 | -0.085 | -0.210 | -0.110 | 0.015 | -0.075 | -0.100 | * |
| * | 24 | 90.0 | 112.5 | * | -0.310 | -0.315 | -0.325 | -0.515 | -0.295 | -0.230 | -0.305 | -0.330 | * |
| * | 25 | 100.0 | 125.0 | * | -0.310 | -0.330 | -0.345 | -0.540 | -0.285 | -0.275 | -0.330 | -0.355 | * |
| * | 26 | 110.0 | 137.5 | * | -0.340 | -0.345 | -0.365 | -0.545 | -0.345 | -0.265 | -0.340 | -0.355 | * |
| * | 27 | 120.0 | 150.0 | * | -0.385 | -0.400 | -0.430 | -0.585 | -0.370 | -0.290 | -0.405 | -0.420 | * |
| * | 28 | 130.0 | 162.5 | * | -0.380 | -0.400 | -0.420 | -0.605 | -0.440 | -0.325 | -0.410 | -0.425 | * |
| * | 29 | 140.0 | 175.0 | * | -0.425 | -0.445 | -0.470 | -0.655 | -0.430 | -0.360 | -0.440 | -0.460 | * |
| * | 30 | 150.0 | 187.5 | * | -0.495 | -0.520 | -0.530 | -0.715 | -0.500 | -0.400 | -0.500 | -0.515 | * |
| * | 31 | 160.0 | 200.0 | * | -0.490 | -0.535 | -0.545 | -0.730 | -0.510 | -0.395 | -0.515 | -0.535 | * |
| * | 32 | 165.0 | 206.3 | * | -0.505 | -0.535 | -0.570 | -0.755 | -0.540 | -0.450 | -0.540 | -0.550 | * |
| * | 33 | 170.0 | 212.5 | * | -0.545 | -0.575 | -0.610 | -0.820 | -0.620 | -0.465 | -0.590 | -0.600 | * |
| ***** | | | | | | | | | | | | | |

VERSUCHSBALKEN P3

GENESSENE RISSBREITEN IN MM

| | | | | | | | | | | | | | |
|-------|-----------|--------|-------|---|------------|-------|-------|-------|-------|-------|-------|-------|---|
| * | * | * | | | | | | | | | | | * |
| * | * | P | M | * | MESZSTELLE | | | | | | | | * |
| * | LASTSTUFE | IN | IN | * | | | | | | | | | * |
| * | * | KN | KNM | * | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 10 | * |
| ***** | | | | | | | | | | | | | |
| * | 26 | *110.0 | 137.5 | * | 0.030 | 0.000 | 0.000 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 27 | *120.0 | 150.0 | * | 0.060 | 0.020 | 0.010 | 0.010 | 0.030 | 0.000 | 0.000 | 0.000 | * |
| * | 28 | *130.0 | 162.5 | * | 0.140 | 0.050 | 0.010 | 0.010 | 0.060 | 0.000 | 0.000 | 0.000 | * |
| * | 29 | *140.0 | 175.0 | * | 0.160 | 0.070 | 0.020 | 0.030 | 0.060 | 0.040 | 0.000 | 0.000 | * |
| * | 30 | *150.0 | 187.5 | * | 0.320 | 0.180 | 0.020 | 0.030 | 0.090 | 0.050 | 0.030 | 0.000 | * |
| * | 31 | *160.0 | 200.0 | * | 0.480 | 0.300 | 0.030 | 0.030 | 0.090 | 0.080 | 0.030 | 0.050 | * |
| * | 32 | *165.0 | 206.3 | * | 0.540 | 0.360 | 0.040 | 0.040 | 0.100 | 0.090 | 0.040 | 0.050 | * |
| * | 33 | *170.0 | 212.5 | * | 0.660 | 0.440 | 0.040 | 0.050 | 0.100 | 0.100 | 0.040 | 0.050 | * |
| ***** | | | | | | | | | | | | | |

VERSUCHSBAALKEN R3

. GEMESSENE RISSBREITEN IN MM

| | | | | | | | | | | | | | |
|-------|-----------|--------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|---|
| * | * | * | * | MESSZSTELLE | | | | | | | | * | |
| * | * | P | M | * | | | | | | | | | * |
| * | LASTSTUFF | IN | IN | * | | | | | | | | | * |
| * | * | KN | KMM | * | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | * |
| ***** | | | | | | | | | | | | | |
| * | 26 | *110.0 | 137.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 27 | *120.0 | 150.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 28 | *130.0 | 162.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 29 | *140.0 | 175.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 30 | *150.0 | 187.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 31 | *160.0 | 200.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 32 | *165.0 | 206.3 | * | 0.060 | 0.030 | 0.030 | 0.040 | 0.040 | 0.000 | 0.000 | 0.000 | * |
| * | 33 | *170.0 | 212.5 | * | 0.060 | 0.030 | 0.030 | 0.040 | 0.040 | 0.060 | 0.030 | 0.050 | * |

VERSUCHSALKEN R3

GEMESSENE RISSBREITEN IN MM

| * | * | * | * | * | * | * | * | * |
|-----------|----|-----|---|------------|----|----|----|---|
| * | P | M | * | MESSSTELLE | | | | * |
| LASTSTUFE | IN | IN | * | | | | | * |
| | KN | KUM | * | 19 | 20 | 21 | 22 | * |

| | | | | | | | | | |
|---|----|--------|-------|---|-------|-------|-------|-------|---|
| * | 26 | *110.0 | 137.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 27 | *120.0 | 150.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 28 | *130.0 | 162.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 29 | *140.0 | 175.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 30 | *150.0 | 187.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 31 | *160.0 | 200.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 32 | *165.0 | 206.5 | * | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 33 | *170.0 | 212.5 | * | 0.060 | 0.020 | 0.030 | 0.020 | * |

GEMESSENE DURCHBIEGUNGEN IN MM

| ***** | | | | | | | | | | | |
|-------------|---------|---------|------------|---------|---------|---------|---------|---------|---------|---------|---|
| * | * | * | MESSSTELLE | | | | | | | | * |
| * LASTSTUFE | * P | * M | | | | | | | | | * |
| | * IN | * IN | | | | | | | | | * |
| * | * KN | * KNH | * 2 | * 3 | * 4 | * 5 | * 6 | * 7 | * 8 | * 9 | * |
| ***** | | | | | | | | | | | |
| * 1 | * 0.0 | * 0.0 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * |
| * 2 | * 20.0 | * 25.0 | * 0.450 | * 0.655 | * 0.735 | * 0.760 | * 0.780 | * 0.800 | * 0.755 | * 0.655 | * |
| * 3 | * 40.0 | * 50.0 | * 0.820 | * 1.220 | * 1.365 | * 1.405 | * 1.425 | * 1.450 | * 1.355 | * 1.105 | * |
| * 4 | * 60.0 | * 75.0 | * 1.160 | * 1.755 | * 1.970 | * 2.020 | * 2.045 | * 2.070 | * 1.905 | * 1.490 | * |
| * 5 | * 80.0 | * 100.0 | * 1.510 | * 2.315 | * 2.595 | * 2.660 | * 2.665 | * 2.700 | * 2.470 | * 1.865 | * |
| * 6 | * 85.0 | * 106.3 | * 1.640 | * 2.525 | * 2.830 | * 2.895 | * 2.925 | * 2.935 | * 2.665 | * 1.990 | * |
| * 7 | * 90.0 | * 112.5 | * 1.720 | * 2.660 | * 2.985 | * 3.050 | * 3.080 | * 3.090 | * 2.800 | * 2.075 | * |
| * 8 | * 100.0 | * 125.0 | * 1.875 | * 2.925 | * 3.285 | * 3.360 | * 3.385 | * 3.385 | * 3.060 | * 2.230 | * |
| * 9 | * 110.0 | * 137.5 | * 2.050 | * 3.225 | * 3.625 | * 3.715 | * 3.735 | * 3.725 | * 3.350 | * 2.400 | * |
| * 10 | * 120.0 | * 150.0 | * 2.280 | * 3.645 | * 4.100 | * 4.220 | * 4.220 | * 4.200 | * 3.745 | * 2.625 | * |
| * 11 | * 125.0 | * 156.3 | * 2.400 | * 3.865 | * 4.360 | * 4.510 | * 4.495 | * 4.465 | * 3.945 | * 2.740 | * |
| * 12 | * 130.0 | * 162.5 | * 2.560 | * 4.150 | * 4.690 | * 4.865 | * 4.850 | * 4.790 | * 4.225 | * 2.890 | * |
| * 13 | * 135.0 | * 168.8 | * 2.670 | * 4.360 | * 4.955 | * 5.130 | * 5.135 | * 5.055 | * 4.435 | * 3.000 | * |
| * 14 | * 140.0 | * 175.0 | * 2.805 | * 4.630 | * 5.270 | * 5.450 | * 5.455 | * 5.360 | * 4.680 | * 3.125 | * |
| * 15 | * 145.0 | * 181.3 | * 3.030 | * 5.080 | * 5.765 | * 5.980 | * 5.975 | * 5.860 | * 5.120 | * 3.345 | * |
| * 16 | * 150.0 | * 187.5 | * 3.225 | * 5.455 | * 6.195 | * 6.420 | * 6.415 | * 6.280 | * 5.475 | * 3.520 | * |
| * 17 | * 155.0 | * 193.8 | * 3.540 | * 5.975 | * 6.820 | * 7.070 | * 7.050 | * 6.855 | * 5.920 | * 3.745 | * |
| * 18 | * 0.0 | * 0.0 | * 0.560 | * 0.925 | * 1.010 | * 1.045 | * 1.015 | * 0.980 | * 0.815 | * 0.515 | * |
| * 19 | * 0.0 | * 0.0 | * 0.475 | * 0.745 | * 0.820 | * 0.835 | * 0.810 | * 0.720 | * 0.635 | * 0.460 | * |
| * 20 | * 40.0 | * 50.0 | * 1.365 | * 2.040 | * 2.260 | * 2.325 | * 2.330 | * 2.255 | * 2.085 | * 1.665 | * |
| * 21 | * 60.0 | * 75.0 | * 1.680 | * 2.545 | * 2.830 | * 2.915 | * 2.920 | * 2.830 | * 2.600 | * 2.000 | * |
| * 22 | * 80.0 | * 100.0 | * 2.025 | * 3.095 | * 3.450 | * 3.530 | * 3.535 | * 3.460 | * 3.145 | * 2.330 | * |
| * 23 | * 85.0 | * 106.3 | * 2.115 | * 3.245 | * 3.615 | * 3.705 | * 3.705 | * 3.625 | * 3.285 | * 2.410 | * |
| * 24 | * 90.0 | * 112.5 | * 2.200 | * 3.390 | * 3.785 | * 3.870 | * 3.870 | * 3.795 | * 3.435 | * 2.495 | * |
| * 25 | * 100.0 | * 125.0 | * 2.375 | * 3.715 | * 4.155 | * 4.240 | * 4.240 | * 4.150 | * 3.730 | * 2.670 | * |
| ***** | | | | | | | | | | | |

GEHESSENE DURCHBIEGUNGEN IN MM

| | | | | | | | | | | | | | |
|-------------|------|--------|-------|------------|-------|-------|--------|--------|-------|-------|-------|---|---|
| ***** | | | | | | | | | | | | | |
| * | * | * | ***** | | | | | | | | | * | |
| * | * P | M | * | MESZSTELLE | | | | | | | | | * |
| * LASTSTUFE | * IN | IN | * | | | | | | | | | | * |
| * | * KN | KNM | * | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | * | |
| ***** | | | | | | | | | | | | | |
| * | 26 | *110,0 | 137,5 | * 2,590 | 4,105 | 4,595 | 4,700 | 4,700 | 4,590 | 4,105 | 2,870 | * | |
| * | 27 | *120,0 | 150,0 | * 2,815 | 4,525 | 5,090 | 5,210 | 5,210 | 5,075 | 4,505 | 3,080 | * | |
| * | 28 | *130,0 | 162,5 | * 3,035 | 4,950 | 5,600 | 5,750 | 5,750 | 5,575 | 4,935 | 3,295 | * | |
| * | 29 | *135,0 | 168,8 | * 3,170 | 5,180 | 5,885 | 6,070 | 6,070 | 5,915 | 5,220 | 3,415 | * | |
| * | 30 | *140,0 | 175,0 | * 3,275 | 5,405 | 6,160 | 6,340 | 6,345 | 6,170 | 5,440 | 3,505 | * | |
| * | 31 | *145,0 | 181,3 | * 3,405 | 5,685 | 6,505 | 6,675 | 6,660 | 6,515 | 5,725 | 3,675 | * | |
| * | 32 | *150,0 | 187,5 | * 3,560 | 5,980 | 6,810 | 7,020 | 6,980 | 6,850 | 5,970 | 3,810 | * | |
| * | 33 | *155,0 | 193,8 | * 3,735 | 6,300 | 7,150 | 7,430 | 7,400 | 7,220 | 6,270 | 3,955 | * | |
| * | 34 | *160,0 | 200,0 | * 3,945 | 6,750 | 7,715 | 7,975 | 7,895 | 7,700 | 6,615 | 4,170 | * | |
| * | 35 | *165,0 | 206,3 | * 4,100 | 7,050 | 8,070 | 8,345 | 8,325 | 8,080 | 7,050 | 4,340 | * | |
| * | 36 | *170,0 | 212,5 | * 4,345 | 7,565 | 8,680 | 8,955 | 8,890 | 8,590 | 7,400 | 4,565 | * | |
| * | 37 | *175,0 | 218,8 | * 4,575 | 8,040 | 9,230 | 9,525 | 9,445 | 9,100 | 7,920 | 4,765 | * | |
| * | 38 | *180,0 | 225,0 | * 4,835 | 8,600 | 9,890 | 10,220 | 10,105 | 9,750 | 8,535 | 5,115 | * | |
| * | 39 | * 0,0 | 0,0 | * 0,770 | 1,280 | 1,455 | 1,465 | 1,425 | 1,420 | 1,245 | 0,765 | * | |
| ***** | | | | | | | | | | | | | |

VERSUCHSBALKEN R4

GEMESSENE FUGENSPALTBREITEN IN MM

* * * *

* P M *MESZSTELLE*

* LASTSTUFE * IN IN * *

* KN KNM * 10 *

* 1 * 0.0 0.0 * 0.000 *

* 2 * 20.0 25.0 * 0.003 *

* 3 * 40.0 50.0 * 0.005 *

* 4 * 60.0 75.0 * 0.008 *

* 5 * 80.0 100.0 * 0.012 *

* 6 * 85.0 106.3 * 0.014 *

* 7 * 90.0 112.5 * 0.016 *

* 8 * 100.0 125.0 * 0.024 *

* 9 * 110.0 137.5 * 0.057 *

* 10 * 120.0 150.0 * 0.124 *

* 11 * 125.0 156.3 * 0.164 *

* 12 * 130.0 162.5 * 0.207 *

* 13 * 135.0 168.8 * 0.248 *

* 14 * 140.0 175.0 * 0.291 *

* 15 * 145.0 181.3 * 0.346 *

* 16 * 150.0 187.5 * 0.399 *

* 17 * 155.0 193.8 * 0.451 *

* 18 * 0.0 0.0 * 0.005 *

* 19 * 0.0 0.0 * 0.002 *

* 20 * 40.0 50.0 * 0.008 *

* 21 * 60.0 75.0 * 0.010 *

* 22 * 80.0 100.0 * 0.014 *

* 23 * 85.0 106.3 * 0.016 *

* 24 * 90.0 112.5 * 0.018 *

* 25 * 100.0 125.0 * 0.029 *

GEMESSENE FUGENSPALTBREITEN IN MM

* * * *

* P M *MESZSTELLE*

* LASTSTUFE * IN IN * *

* KN KNM * 10 *

* 26 *110.0 137.5 * 0.075 *

* 27 *120.0 150.0 * 0.152 *

* 28 *130.0 162.5 * 0.237 *

* 29 *135.0 168.8 * 0.281 *

* 30 *140.0 175.0 * 0.322 *

* 31 *145.0 181.3 * 0.366 *

* 32 *150.0 187.5 * 0.409 *

* 33 *155.0 193.8 * 0.457 *

* 34 *160.0 200.0 * 0.506 *

* 35 *165.0 206.3 * 0.555 *

* 36 *170.0 212.5 * 0.622 *

* 37 *175.0 218.8 * 0.696 *

* 38 *180.0 225.0 * 0.778 *

* 39 * 0.0 0.0 * 0.004 *

GEMESSENE SPANNSTAHLDEHNUNGEN IN MM/M

| * LASTSTUFE | * P | * M | * MESZSTELLE | * 17 | * 11 | * 12 | * 13 | * 14 | * 15 | * 16 | * 1 |
|-------------|-------|-------|--------------|--------|--------|--------|--------|--------|--------|--------|-----|
| * KN | * IN | * IN | | | | | | | | | |
| * KN | * IN | * IN | | | | | | | | | |
| 1 | 0.0 | 0.0 | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| 2 | 20.0 | 25.0 | | 0.016 | 0.030 | 0.033 | 0.039 | 0.034 | 0.031 | 0.013 | * |
| 3 | 40.0 | 50.0 | | 0.028 | 0.059 | 0.065 | 0.069 | 0.071 | 0.066 | 0.035 | * |
| 4 | 60.0 | 75.0 | | 0.042 | 0.091 | 0.100 | 0.108 | 0.108 | 0.102 | 0.051 | * |
| 5 | 80.0 | 100.0 | | 0.061 | 0.120 | 0.139 | 0.144 | 0.157 | 0.140 | 0.070 | * |
| 6 | 85.0 | 106.3 | | 0.063 | 0.135 | 0.155 | 0.167 | 0.168 | 0.155 | 0.080 | * |
| 7 | 90.0 | 112.5 | | 0.068 | 0.139 | 0.160 | 0.175 | 0.169 | 0.158 | 0.080 | * |
| 8 | 100.0 | 125.0 | | 0.073 | 0.162 | 0.180 | 0.215 | 0.202 | 0.185 | 0.095 | * |
| 9 | 110.0 | 137.5 | | 0.084 | 0.179 | 0.203 | 0.277 | 0.230 | 0.209 | 0.107 | * |
| 10 | 120.0 | 150.0 | | 0.090 | 0.192 | 0.239 | 0.420 | 0.249 | 0.232 | 0.113 | * |
| 11 | 125.0 | 156.3 | | 0.087 | 0.205 | 0.252 | 0.498 | 0.271 | 0.255 | 0.120 | * |
| 12 | 130.0 | 162.5 | | 0.084 | 0.218 | 0.278 | 0.586 | 0.298 | 0.286 | 0.139 | * |
| 13 | 135.0 | 168.8 | | 0.090 | 0.228 | 0.300 | 0.660 | 0.330 | 0.302 | 0.164 | * |
| 14 | 140.0 | 175.0 | | 0.105 | 0.241 | 0.335 | 0.747 | 0.378 | 0.320 | 0.146 | * |
| 15 | 145.0 | 181.3 | | 0.110 | 0.260 | 0.428 | 0.846 | 0.535 | 0.555 | 0.158 | * |
| 16 | 150.0 | 187.5 | | 0.116 | 0.282 | 0.482 | 0.941 | 0.595 | 0.424 | 0.175 | * |
| 17 | 155.0 | 193.8 | | 0.107 | 0.302 | 0.551 | 1.011 | 0.629 | 0.502 | 0.171 | * |
| 18 | 0.0 | 0.0 | | 0.001 | 0.016 | 0.056 | 0.011 | 0.056 | 0.042 | 0.024 | * |
| 19 | 0.0 | 0.0 | | -0.031 | -0.020 | -0.004 | -0.036 | -0.014 | -0.009 | -0.022 | * |
| 20 | 40.0 | 50.0 | | -0.009 | 0.039 | 0.060 | 0.028 | 0.035 | 0.059 | -0.002 | * |
| 21 | 60.0 | 75.0 | | 0.007 | 0.073 | 0.112 | 0.060 | 0.081 | 0.092 | 0.023 | * |
| 22 | 80.0 | 100.0 | | 0.019 | 0.111 | 0.148 | 0.110 | 0.140 | 0.142 | 0.050 | * |
| 23 | 85.0 | 106.3 | | 0.038 | 0.133 | 0.168 | 0.122 | 0.162 | 0.162 | 0.060 | * |
| 24 | 90.0 | 112.5 | | 0.029 | 0.139 | 0.185 | 0.135 | 0.175 | 0.168 | 0.072 | * |
| 25 | 100.0 | 125.0 | | 0.035 | 0.158 | 0.233 | 0.163 | 0.217 | 0.205 | 0.080 | * |

GENESSENE SPANNSTAHLDEHNUNGEN IN MM/M

| | | | | | | | | | | |
|-------------|----|--------|------------|---------|-------|-------|-------|-------|-------|-------|
| ***** | | | | | | | | | | |
| * | * | * | | | | | | | | * |
| * | P | M | MESZSTELLE | | | | | | | * |
| * LASTSTUFE | IN | IN | * | | | | | | | * |
| * | KN | KNM | * | 17 | 11 | 12 | 13 | 14 | 15 | 16 |
| ***** | | | | | | | | | | |
| * | 26 | *110.0 | 137.5 | * 0.043 | 0.180 | 0.287 | 0.254 | 0.279 | 0.253 | 0.093 |
| * | 27 | *120.0 | 150.0 | * 0.055 | 0.209 | 0.340 | 0.378 | 0.346 | 0.291 | 0.104 |
| * | 28 | *130.0 | 162.5 | * 0.062 | 0.227 | 0.382 | 0.526 | 0.408 | 0.346 | 0.120 |
| * | 29 | *135.0 | 168.8 | * 0.071 | 0.255 | 0.416 | 0.647 | 0.448 | 0.397 | 0.127 |
| * | 30 | *140.0 | 175.0 | * 0.077 | 0.272 | 0.465 | 0.720 | 0.465 | 0.399 | 0.105 |
| * | 31 | *145.0 | 181.3 | * 0.096 | 0.285 | 0.499 | 0.803 | 0.540 | 0.447 | 0.147 |
| * | 32 | *150.0 | 187.5 | * 0.110 | 0.305 | 0.549 | 0.911 | 0.623 | 0.513 | 0.200 |
| * | 33 | *155.0 | 193.8 | * 0.112 | 0.325 | 0.573 | 1.020 | 0.667 | 0.520 | 0.180 |
| * | 34 | *160.0 | 200.0 | * 0.077 | 0.443 | 0.610 | 1.068 | 0.640 | 0.591 | 0.148 |
| * | 35 | *165.0 | 206.3 | * 0.116 | 0.523 | 0.657 | 1.217 | 0.756 | 0.655 | 0.179 |
| * | 36 | *170.0 | 212.5 | * 0.111 | 0.579 | 0.727 | 1.297 | 0.801 | 0.793 | 0.219 |
| * | 37 | *175.0 | 218.8 | * 0.113 | 0.643 | 0.792 | 1.453 | 0.861 | 0.826 | 0.229 |
| * | 38 | *180.0 | 225.0 | * 0.160 | 0.704 | 0.865 | 1.627 | 0.945 | 0.872 | 0.255 |
| * | 39 | * 0.0 | 0.0 | * 0.005 | 0.025 | 0.049 | 0.129 | 0.059 | 0.149 | 0.045 |
| ***** | | | | | | | | | | |

VERSUCHSBALKEN R4

GEMESSENE BETONVERFORMUNGEN IN 0/00

| * LASTSTUFF | * P | * M | * MESZSTELLE | * 1 | * 2 | * 3 | * 4 | * 5 | * 6 | * 7 | * 8 | * |
|-------------|---------|---------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|---|
| * KN | * IN | * KNM | | | | | | | | | | |
| * 1 | * 0.0 | * 0.0 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 4 | * 60.0 | * 75.0 | * 0.130 | 0.105 | 0.120 | 0.100 | 0.190 | 0.200 | 0.115 | 0.100 | | * |
| * 5 | * 80.0 | * 100.0 | * 0.160 | 0.140 | 0.145 | 0.120 | 0.195 | 0.270 | 0.150 | 0.135 | | * |
| * 6 | * 85.0 | * 105.5 | * 0.150 | 0.145 | 0.150 | 0.145 | 0.160 | 0.300 | 0.160 | 0.135 | | * |
| * 7 | * 90.0 | * 112.5 | * 0.175 | 0.210 | 0.175 | 0.170 | 0.200 | 0.325 | 0.175 | 0.180 | | * |
| * 8 | * 100.0 | * 125.0 | * 0.175 | 0.215 | 0.190 | 0.180 | 0.190 | 0.335 | 0.185 | 0.165 | | * |
| * 9 | * 110.0 | * 137.5 | * 0.205 | 0.225 | 0.200 | 0.200 | 0.210 | 0.350 | 0.205 | 0.170 | | * |
| * 10 | * 120.0 | * 150.0 | * 0.185 | 0.235 | 0.210 | 0.200 | 0.215 | 0.340 | 0.195 | 0.175 | | * |
| * 11 | * 125.0 | * 156.5 | * 0.250 | 0.280 | 0.265 | 0.250 | 0.275 | 0.405 | 0.250 | 0.220 | | * |
| * 12 | * 130.0 | * 162.5 | * 0.280 | 0.335 | 0.320 | 0.290 | 0.330 | 0.445 | 0.290 | 0.270 | | * |
| * 14 | * 140.0 | * 175.0 | * 0.275 | 0.570 | 0.325 | 0.340 | 0.405 | 0.490 | 0.345 | 0.345 | | * |
| * 16 | * 150.0 | * 187.5 | * 0.290 | 0.875 | 0.560 | 0.305 | 0.795 | 0.480 | 0.320 | 0.320 | | * |
| * 17 | * 155.0 | * 193.8 | * 0.300 | 0.890 | 0.620 | 0.310 | 0.930 | 0.475 | 0.325 | 0.320 | | * |
| * 18 | * 0.0 | * 0.0 | * 0.135 | 0.180 | 0.155 | 0.115 | 0.170 | 0.255 | 0.120 | 0.130 | | * |
| * 19 | * 0.0 | * 0.0 | * 0.045 | 0.100 | 0.050 | 0.030 | 0.085 | 0.215 | 0.050 | 0.045 | | * |
| * 21 | * 60.0 | * 75.0 | * 0.130 | 0.210 | 0.180 | 0.130 | 0.210 | 0.335 | 0.150 | 0.170 | | * |
| * 22 | * 80.0 | * 100.0 | * 0.190 | 0.280 | 0.225 | 0.155 | 0.280 | 0.295 | 0.155 | 0.205 | | * |
| * 24 | * 90.0 | * 112.5 | * 0.220 | 0.370 | 0.300 | 0.185 | 0.395 | 0.335 | 0.205 | 0.230 | | * |
| * 26 | * 110.0 | * 137.5 | * 0.275 | 0.595 | 0.410 | 0.235 | 0.590 | 0.380 | 0.225 | 0.235 | | * |
| * 27 | * 120.0 | * 150.0 | * 0.275 | 0.620 | 0.440 | 0.245 | 0.655 | 0.395 | 0.235 | 0.300 | | * |
| * 28 | * 130.0 | * 162.5 | * 0.265 | 0.690 | 0.480 | 0.240 | 0.730 | 0.445 | 0.210 | 0.270 | | * |
| * 30 | * 140.0 | * 175.0 | * 0.280 | 0.810 | 0.550 | 0.290 | 0.835 | 0.410 | 0.245 | 0.285 | | * |
| * 32 | * 150.0 | * 187.5 | * 0.310 | 0.910 | 0.645 | 0.285 | 0.965 | 0.465 | 0.270 | 0.330 | | * |
| * 33 | * 155.0 | * 193.8 | * 0.305 | 0.980 | 0.645 | 0.270 | 1.060 | 0.475 | 0.280 | 0.325 | | * |
| * 34 | * 160.0 | * 200.0 | * 0.350 | 1.065 | 0.705 | 0.315 | 1.105 | 0.475 | 0.595 | 0.335 | | * |

VERSUCHSBALKEN R4

GEMESSENE BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | | |
|-------------|----|-----|---|---|---|---|---|---|---|---|---|---|
| * | * | * | | | | | | | | | | * |
| * | P | M | | | | | | | | | | * |
| * LASTSTUFE | IN | IN | | | | | | | | | | * |
| * | KN | KNM | * | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | * |
| * | * | * | * | | | | | | | | | * |

MESZSTELLE

| | | | | | | | | | | | | | |
|---|----|--------|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|---|
| * | 35 | *165.0 | 206.3 | * | 0.315 | 1.145 | 0.695 | 0.300 | 1.140 | 0.465 | 0.720 | 0.305 | * |
| * | 36 | *170.0 | 212.5 | * | 0.360 | 1.220 | 0.720 | 0.335 | 1.200 | 0.475 | 0.855 | 0.325 | * |

VERSUCHSBALKEN R4

GEMESSENE BETONVERFORMUNGEN IN 0/00

| * | * | * | * | MESZSTELLE | | | | | | | | * |
|-------------|----|--------|-------|------------|--------|--------|-------|-------|-------|-------|-------|---|
| * | P | M | * | | | | | | | | | * |
| * LASTSTUFE | IN | IN | * | | | | | | | | | * |
| * | KN | KNH | * | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | * |
| * | * | * | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | |
| * | 1 | * 0.0 | 0.0 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 4 | * 00.0 | 75.0 | * 0.115 | 0.160 | 0.060 | 0.130 | 0.110 | 0.145 | 0.100 | 0.115 | * |
| * | 5 | * 80.0 | 100.0 | * 0.145 | 0.210 | 0.095 | 0.170 | 0.125 | 0.180 | 0.140 | 0.145 | * |
| * | 6 | * 85.0 | 106.3 | * 0.150 | 0.255 | 0.095 | 0.165 | 0.130 | 0.195 | 0.165 | 0.175 | * |
| * | 7 | * 90.0 | 112.5 | * 0.175 | 0.295 | 0.165 | 0.185 | 0.170 | 0.220 | 0.185 | 0.195 | * |
| * | 8 | *100.0 | 125.0 | * 0.175 | 0.430 | 0.105 | 0.210 | 0.185 | 0.240 | 0.200 | 0.230 | * |
| * | 9 | *110.0 | 137.5 | * 0.165 | 0.770 | 0.140 | 0.220 | 0.185 | 0.260 | 0.205 | 0.230 | * |
| * | 10 | *120.0 | 150.0 | * 0.170 | 1.275 | 0.135 | 0.210 | 0.170 | 0.260 | 0.205 | 0.250 | * |
| * | 11 | *125.0 | 156.3 | * 0.215 | 1.655 | 0.160 | 0.255 | 0.225 | 0.305 | 0.235 | 0.310 | * |
| * | 12 | *130.0 | 162.5 | * 0.245 | 1.930 | 0.240 | 0.305 | 0.245 | 0.345 | 0.340 | 0.365 | * |
| * | 14 | *140.0 | 175.0 | * 0.270 | 2.900 | 0.260 | 0.285 | 0.260 | 0.410 | 0.310 | 0.390 | * |
| * | 16 | *150.0 | 187.5 | * 0.310 | 3.920 | 0.230 | 0.315 | 0.300 | 0.775 | 0.125 | 0.980 | * |
| * | 17 | *155.0 | 193.8 | * 0.290 | 4.575 | 0.190 | 0.275 | 0.300 | 0.795 | 0.310 | 1.035 | * |
| * | 18 | * 0.0 | 0.0 | * 0.140 | 0.170 | 0.070 | 0.105 | 0.110 | 0.155 | 0.090 | 0.095 | * |
| * | 19 | * 0.0 | 0.0 | * 0.060 | -0.050 | -0.015 | 0.040 | 0.010 | 0.075 | 0.065 | 0.015 | * |
| * | 21 | * 60.0 | 75.0 | * 0.140 | 0.100 | 0.095 | 0.140 | 0.090 | 0.210 | 0.105 | 0.135 | * |
| * | 22 | * 80.0 | 100.0 | * 0.210 | 0.180 | 0.140 | 0.180 | 0.140 | 0.280 | 0.160 | 0.225 | * |
| * | 24 | * 90.0 | 112.5 | * 0.230 | 0.285 | 0.135 | 0.165 | 0.100 | 0.285 | 0.100 | 0.320 | * |
| * | 26 | *110.0 | 137.5 | * 0.215 | 0.980 | 0.150 | 0.200 | 0.175 | 0.465 | 0.165 | 0.510 | * |
| * | 27 | *120.0 | 150.0 | * 0.275 | 1.600 | 0.135 | 0.225 | 0.195 | 0.505 | 0.220 | 0.635 | * |
| * | 28 | *130.0 | 162.5 | * 0.205 | 2.470 | 0.180 | 0.235 | 0.195 | 0.570 | 0.245 | 0.690 | * |
| * | 30 | *140.0 | 175.0 | * 0.225 | 3.330 | 0.170 | 0.230 | 0.235 | 0.615 | 0.240 | 0.845 | * |
| * | 32 | *150.0 | 187.5 | * 0.260 | 4.180 | 0.180 | 0.250 | 0.270 | 0.740 | 0.325 | 0.950 | * |
| * | 33 | *155.0 | 193.8 | * 0.295 | 4.850 | 0.175 | 0.225 | 0.245 | 0.700 | 0.385 | 1.005 | * |
| * | 34 | *160.0 | 200.0 | * 0.295 | 5.345 | 0.155 | 0.215 | 0.270 | 0.775 | 0.500 | 1.050 | * |

VERSUCHSBALKEN R4

GEMESSENE BETONVERFORMUNGEN IN 0/00

* * * * *

* P H * MESZSTELLE *

* LASTSTUFE * IN IN * *

* KN KNM * 9 10 11 12 13 14 15 16 *

* * * * *

* 35 *165.0 206.3 * 0.225 6.120 0.165 0.155 0.275 0.790 0.585 1.095 *

* 36 *170.0 212.5 * 0.205 6.900 0.180 0.185 0.280 0.865 0.655 1.150 *

* * * * *

VERSUCHSBALKEN R4

GEMESSENE BETONVERFORMUNGEN IN 0/00

| * | * | * | MESSSTELLE | | | | | | | | | * |
|-------------|---------|---------|------------|-------|-------|--------|--------|--------|--------|--------|-------|---|
| * LASTSTUFE | * P | * M | | | | | | | | | | * |
| * | * IN | * IN | * | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | * |
| * | * KN | * KNM | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | |
| * 1 | * 0.0 | * 0.0 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * 4 | * 60.0 | * 75.0 | * 0.100 | 0.115 | 0.095 | -0.105 | -0.110 | -0.100 | -0.125 | -0.170 | | * |
| * 5 | * 80.0 | * 100.0 | * 0.135 | 0.145 | 0.135 | -0.190 | -0.170 | -0.165 | -0.190 | -0.245 | | * |
| * 6 | * 85.0 | * 106.3 | * 0.145 | 0.170 | 0.145 | -0.195 | -0.155 | -0.190 | -0.200 | -0.255 | | * |
| * 7 | * 90.0 | * 112.5 | * 0.170 | 0.180 | 0.190 | -0.190 | -0.195 | -0.230 | -0.220 | -0.275 | | * |
| * 8 | * 100.0 | * 125.0 | * 0.190 | 0.210 | 0.200 | -0.245 | -0.210 | -0.235 | -0.245 | -0.310 | | * |
| * 9 | * 110.0 | * 137.5 | * 0.195 | 0.200 | 0.190 | -0.240 | -0.260 | -0.260 | -0.275 | -0.330 | | * |
| * 10 | * 120.0 | * 150.0 | * 0.190 | 0.215 | 0.200 | -0.290 | -0.255 | -0.310 | -0.335 | -0.405 | | * |
| * 11 | * 125.0 | * 156.3 | * 0.230 | 0.250 | 0.225 | -0.285 | -0.235 | -0.320 | -0.315 | -0.390 | | * |
| * 12 | * 130.0 | * 162.5 | * 0.275 | 0.270 | 0.265 | -0.295 | -0.300 | -0.335 | -0.355 | -0.420 | | * |
| * 14 | * 140.0 | * 175.0 | * 0.270 | 0.290 | 0.280 | -0.340 | -0.320 | -0.365 | -0.365 | -0.460 | | * |
| * 16 | * 150.0 | * 187.5 | * 0.300 | 0.290 | 0.390 | -0.365 | -0.315 | -0.370 | -0.400 | -0.475 | | * |
| * 17 | * 155.0 | * 193.8 | * 0.315 | 0.340 | 0.415 | -0.380 | -0.405 | -0.430 | -0.460 | -0.550 | | * |
| * 18 | * 0.0 | * 0.0 | * 0.065 | 0.050 | 0.070 | 0.010 | -0.010 | 0.000 | -0.015 | -0.085 | | * |
| * 19 | * 0.0 | * 0.0 | * 0.010 | 0.020 | 0.010 | -0.070 | -0.065 | -0.085 | -0.095 | -0.170 | | * |
| * 21 | * 60.0 | * 75.0 | * 0.085 | 0.100 | 0.115 | -0.200 | -0.170 | -0.200 | -0.195 | -0.310 | | * |
| * 22 | * 80.0 | * 100.0 | * 0.155 | 0.185 | 0.175 | -0.225 | -0.200 | -0.235 | -0.225 | -0.340 | | * |
| * 24 | * 90.0 | * 112.5 | * 0.155 | 0.210 | 0.210 | -0.225 | -0.230 | -0.260 | -0.265 | -0.360 | | * |
| * 26 | * 110.0 | * 137.5 | * 0.205 | 0.320 | 0.275 | -0.260 | -0.250 | -0.295 | -0.305 | -0.410 | | * |
| * 27 | * 120.0 | * 150.0 | * 0.215 | 0.350 | 0.270 | -0.320 | -0.290 | -0.385 | -0.370 | -0.450 | | * |
| * 28 | * 130.0 | * 162.5 | * 0.220 | 0.400 | 0.270 | -0.360 | -0.335 | -0.390 | -0.405 | -0.510 | | * |
| * 30 | * 140.0 | * 175.0 | * 0.285 | 0.450 | 0.355 | -0.380 | -0.365 | -0.400 | -0.415 | -0.535 | | * |
| * 32 | * 150.0 | * 187.5 | * 0.300 | 0.585 | 0.400 | -0.415 | -0.375 | -0.430 | -0.455 | -0.540 | | * |
| * 33 | * 155.0 | * 193.8 | * 0.310 | 0.645 | 0.410 | -0.450 | -0.410 | -0.475 | -0.515 | -0.610 | | * |
| * 34 | * 160.0 | * 200.0 | * 0.365 | 0.730 | 0.460 | -0.460 | -0.430 | -0.485 | -0.515 | -0.605 | | * |

VERSUCHSBALKEN R4

GEMESSENE BETONVERFORMUNGEN IN 0/00

* * *

* * P M * MESZSTELLE *

* LASTSTUFE * IN IN * *

* * KN KNM * 17 18 19 20 21 22 23 24 *

* * *

* 35 *165.0 206.3 * 0.380 0.780 0.480 -0.495 -0.450 -0.520 -0.545 -0.635 *

* 36 *170.0 212.5 * 0.515 0.860 0.565 -0.500 -0.470 -0.520 -0.560 -0.630 *

VERSUCHSBALKEN R4

GEMESSENE BETONVERFORMUNGEN IN 0/00

| * LASTSTUFE | * P KN | * M KNM | * 25 | * 26 | * 27 | * 28 | * 29 | * 30 | * 31 | * 32 | * |
|-------------|-----------|------------|----------|----------|----------|----------|----------|---------|---------|----------|---|
| | | | | | | | | | | | |
| * 1 | * 0.0 | * 0.0 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * 0.000 | * |
| * 4 | * 60.0 | * 75.0 | * -0.075 | * -0.125 | * -0.120 | * -0.115 | * 0.090 | * 0.125 | * 0.125 | * 0.100 | * |
| * 5 | * 80.0 | * 100.0 | * -0.140 | * -0.175 | * -0.170 | * -0.165 | * 0.120 | * 0.140 | * 0.155 | * 0.125 | * |
| * 6 | * 85.0 | * 106.3 | * -0.155 | * -0.190 | * -0.190 | * -0.175 | * 0.120 | * 0.165 | * 0.175 | * 0.135 | * |
| * 7 | * 90.0 | * 112.5 | * -0.175 | * -0.205 | * -0.205 | * -0.175 | * 0.150 | * 0.165 | * 0.195 | * 0.160 | * |
| * 8 | * 100.0 | * 125.0 | * -0.200 | * -0.215 | * -0.210 | * -0.200 | * 0.165 | * 0.195 | * 0.215 | * 0.175 | * |
| * 9 | * 110.0 | * 137.5 | * -0.210 | * -0.245 | * -0.250 | * -0.230 | * 0.185 | * 0.225 | * 0.240 | * 0.190 | * |
| * 10 | * 120.0 | * 150.0 | * -0.265 | * -0.325 | * -0.305 | * -0.295 | * 0.150 | * 0.240 | * 0.270 | * 0.170 | * |
| * 11 | * 125.0 | * 156.3 | * -0.260 | * -0.310 | * -0.275 | * -0.250 | * 0.195 | * 0.275 | * 0.285 | * 0.215 | * |
| * 12 | * 130.0 | * 162.5 | * -0.275 | * -0.340 | * -0.300 | * -0.300 | * 0.185 | * 0.325 | * 0.325 | * 0.260 | * |
| * 14 | * 140.0 | * 175.0 | * -0.305 | * -0.380 | * -0.350 | * -0.310 | * 0.200 | * 0.395 | * 0.790 | * 0.270 | * |
| * 16 | * 150.0 | * 187.5 | * -0.320 | * -0.390 | * -0.355 | * -0.340 | * 0.235 | * 0.815 | * 0.940 | * 0.275 | * |
| * 17 | * 155.0 | * 193.8 | * -0.385 | * -0.430 | * -0.410 | * -0.410 | * 0.270 | * 0.895 | * 0.980 | * 0.335 | * |
| * 18 | * 0.0 | * 0.0 | * 0.010 | * -0.015 | * -0.010 | * 0.010 | * 0.055 | * 0.075 | * 0.100 | * 0.045 | * |
| * 19 | * 0.0 | * 0.0 | * -0.060 | * -0.095 | * -0.075 | * -0.065 | * -0.025 | * 0.020 | * 0.030 | * -0.005 | * |
| * 21 | * 60.0 | * 75.0 | * -0.165 | * -0.210 | * -0.185 | * -0.160 | * 0.100 | * 0.155 | * 0.155 | * 0.085 | * |
| * 22 | * 80.0 | * 100.0 | * -0.160 | * -0.245 | * -0.185 | * -0.165 | * 0.135 | * 0.215 | * 0.230 | * 0.125 | * |
| * 24 | * 90.0 | * 112.5 | * -0.200 | * -0.250 | * -0.240 | * -0.225 | * 0.165 | * 0.295 | * 0.325 | * 0.130 | * |
| * 26 | * 110.0 | * 137.5 | * -0.255 | * -0.315 | * -0.275 | * -0.270 | * 0.220 | * 0.510 | * 0.530 | * 0.220 | * |
| * 27 | * 120.0 | * 150.0 | * -0.300 | * -0.345 | * -0.310 | * -0.315 | * 0.215 | * 0.570 | * 0.590 | * 0.220 | * |
| * 28 | * 130.0 | * 162.5 | * -0.350 | * -0.390 | * -0.360 | * -0.340 | * 0.215 | * 0.675 | * 0.710 | * 0.290 | * |
| * 30 | * 140.0 | * 175.0 | * -0.350 | * -0.425 | * -0.365 | * -0.370 | * 0.240 | * 0.785 | * 0.810 | * 0.345 | * |
| * 32 | * 150.0 | * 187.5 | * -0.375 | * -0.435 | * -0.425 | * -0.410 | * 0.325 | * 0.930 | * 0.940 | * 0.405 | * |
| * 33 | * 155.0 | * 193.8 | * -0.435 | * -0.480 | * -0.460 | * -0.445 | * 0.325 | * 0.960 | * 0.935 | * 0.400 | * |
| * 34 | * 160.0 | * 200.0 | * -0.430 | * -0.490 | * -0.455 | * -0.455 | * 0.300 | * 1.010 | * 1.000 | * 0.410 | * |

VERSUCHSBALKEN R4

GEMESSENE BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | | | |
|---|-----------|----|-----|----|----|----|----|----|----|----|----|----|---|
| * | * | * | * | * | | | | | | | | * | |
| * | * | P | H | * | | | | | | | | * | |
| * | LASTSTUFF | * | IN | IN | * | | | | | | | * | |
| * | * | KN | KNM | * | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | * |
| * | * | * | * | * | | | | | | | | | * |

| | | | | | | | | | | | | |
|---|----|--------|-------|---------|--------|--------|--------|-------|-------|-------|-------|---|
| * | 35 | *165.0 | 206.3 | *-0.450 | -0.535 | -0.475 | -0.455 | 0.310 | 1.060 | 1.000 | 0.420 | * |
| * | 36 | *170.0 | 212.5 | *-0.475 | -0.530 | -0.505 | -0.485 | 0.385 | 1.145 | 1.060 | 0.400 | * |

VERSUCHSBALKEN RA

GEMESSENE BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | | | |
|-------|-----------|--------|-------|---|------------|-------|-------|-------|-------|-------|-------|-------|---|
| ***** | | | | | | | | | | | | | |
| * | * | * | | | | | | | | | | * | |
| * | * | P | M | * | MESZSTELLE | | | | | | | * | |
| * | LASTSTUFE | IN | IN | * | | | | | | | | * | |
| * | * | KN | KNM | * | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | * |
| * | * | * | * | * | | | | | | | | * | |
| ***** | | | | | | | | | | | | | |
| * | 1 | * 0.0 | 0.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 4 | * 60.0 | 75.0 | * | 0.095 | 0.095 | 0.100 | 0.095 | 0.115 | 0.155 | 0.130 | 0.130 | * |
| * | 5 | * 80.0 | 100.0 | * | 0.125 | 0.145 | 0.140 | 0.135 | 0.130 | 0.195 | 0.140 | 0.150 | * |
| * | 6 | * 85.0 | 106.3 | * | 0.145 | 0.135 | 0.135 | 0.150 | 0.150 | 0.210 | 0.160 | 0.170 | * |
| * | 7 | * 90.0 | 112.5 | * | 0.145 | 0.165 | 0.150 | 0.155 | 0.165 | 0.230 | 0.175 | 0.170 | * |
| * | 8 | *100.0 | 125.0 | * | 0.175 | 0.185 | 0.170 | 0.180 | 0.200 | 0.295 | 0.190 | 0.200 | * |
| * | 9 | *110.0 | 137.5 | * | 0.180 | 0.205 | 0.190 | 0.195 | 0.200 | 0.625 | 0.185 | 0.205 | * |
| * | 10 | *120.0 | 150.0 | * | 0.190 | 0.185 | 0.165 | 0.165 | 0.170 | 1.255 | 0.155 | 0.185 | * |
| * | 11 | *125.0 | 156.3 | * | 0.225 | 0.230 | 0.205 | 0.200 | 0.200 | 1.665 | 0.185 | 0.215 | * |
| * | 12 | *130.0 | 162.5 | * | 0.230 | 0.225 | 0.285 | 0.210 | 0.205 | 2.155 | 0.215 | 0.180 | * |
| * | 14 | *140.0 | 175.0 | * | 0.260 | 0.280 | 0.240 | 0.245 | 0.250 | 2.865 | 0.220 | 0.225 | * |
| * | 16 | *150.0 | 187.5 | * | 0.260 | 0.300 | 0.270 | 0.280 | 0.250 | 4.010 | 0.215 | 0.235 | * |
| * | 17 | *155.0 | 193.8 | * | 0.200 | 0.745 | 0.275 | 0.295 | 0.255 | 4.505 | 0.205 | 0.220 | * |
| * | 18 | * 0.0 | 0.0 | * | 0.030 | 0.065 | 0.055 | 0.050 | 0.050 | 0.055 | 0.070 | 0.060 | * |
| * | 19 | * 0.0 | 0.0 | * | -0.020 | 0.035 | 0.005 | 0.010 | 0.015 | 0.005 | 0.015 | 0.010 | * |
| * | 21 | * 60.0 | 75.0 | * | 0.075 | 0.140 | 0.100 | 0.125 | 0.095 | 0.105 | 0.110 | 0.085 | * |
| * | 22 | * 80.0 | 100.0 | * | 0.090 | 0.220 | 0.135 | 0.155 | 0.145 | 0.190 | 0.160 | 0.160 | * |
| * | 24 | * 90.0 | 112.5 | * | 0.110 | 0.300 | 0.195 | 0.175 | 0.190 | 0.245 | 0.185 | 0.150 | * |
| * | 26 | *110.0 | 137.5 | * | 0.135 | 0.470 | 0.200 | 0.225 | 0.200 | 0.835 | 0.200 | 0.200 | * |
| * | 27 | *120.0 | 150.0 | * | 0.130 | 0.520 | 0.200 | 0.245 | 0.190 | 1.515 | 0.150 | 0.185 | * |
| * | 28 | *130.0 | 162.5 | * | 0.140 | 0.575 | 0.220 | 0.250 | 0.185 | 2.345 | 0.165 | 0.180 | * |
| * | 30 | *140.0 | 175.0 | * | 0.200 | 0.725 | 0.310 | 0.300 | 0.235 | 3.165 | 0.205 | 0.185 | * |
| * | 32 | *150.0 | 187.5 | * | 0.225 | 0.820 | 0.295 | 0.300 | 0.235 | 4.070 | 0.225 | 0.230 | * |
| * | 33 | *155.0 | 193.8 | * | 0.210 | 0.835 | 0.310 | 0.320 | 0.285 | 4.505 | 0.200 | 0.200 | * |
| * | 34 | *160.0 | 200.0 | * | 0.355 | 0.855 | 0.655 | 0.390 | 0.295 | 4.995 | 0.245 | 0.235 | * |
| ***** | | | | | | | | | | | | | |

VERSUCHSBALKEN R4

GEMESSENE BETONVERFORMUNGEN IN 0/00

* * *

* P M MESZSTELLE *

* LASTSTUFE * IN IN *

* KII KNM * 33 34 35 36 37 38 39 40 *

* * *

* 35 *105.0 206.3 * 0.470 0.870 0.730 0.410 0.280 5.590 0.215 0.225 *

* 36 *170.0 212.5 * 0.575 0.885 0.835 0.400 0.275 6.410 0.220 0.230 *

VERSUCHSBALKEN R4

GEMESSENE BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | | | |
|-------|-----------|--------|-------|---|------------|--------|-------|--------|-------|-------|-------|--------|---|
| ***** | | | | | | | | | | | | | |
| * | * | * | * | | | | | | | | | * | |
| * | * | P | M | * | MESSSTELLE | | | | | | | | * |
| * | LASTSTUFE | IN | IN | * | | | | | | | | | * |
| * | * | KH | KNH | * | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | * |
| * | * | * | * | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | | |
| * | 1 | * 0.0 | 0.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 4 | * 60.0 | 75.0 | * | 0.145 | 0.120 | 0.175 | 0.115 | 0.120 | 0.120 | 0.105 | -0.140 | * |
| * | 5 | * 80.0 | 100.0 | * | 0.165 | 0.140 | 0.215 | 0.165 | 0.165 | 0.170 | 0.135 | -0.190 | * |
| * | 6 | * 85.0 | 106.3 | * | 0.195 | 0.160 | 0.225 | 0.155 | 0.180 | 0.165 | 0.145 | -0.200 | * |
| * | 7 | * 90.0 | 112.5 | * | 0.195 | 0.170 | 0.260 | 0.195 | 0.195 | 0.190 | 0.180 | -0.215 | * |
| * | 8 | *100.0 | 125.0 | * | 0.235 | 0.185 | 0.270 | 0.205 | 0.220 | 0.210 | 0.175 | -0.240 | * |
| * | 9 | *110.0 | 137.5 | * | 0.240 | 0.190 | 0.285 | 0.230 | 0.240 | 0.230 | 0.205 | -0.265 | * |
| * | 10 | *120.0 | 150.0 | * | 0.245 | 0.185 | 0.275 | 0.250 | 0.220 | 0.240 | 0.200 | -0.335 | * |
| * | 11 | *125.0 | 156.3 | * | 0.280 | 0.225 | 0.310 | 0.305 | 0.265 | 0.280 | 0.240 | -0.310 | * |
| * | 12 | *130.0 | 162.5 | * | 0.270 | 0.275 | 0.340 | 0.295 | 0.275 | 0.310 | 0.255 | -0.350 | * |
| * | 14 | *140.0 | 175.0 | * | 0.355 | 0.275 | 0.855 | 0.280 | 0.300 | 0.385 | 0.315 | -0.380 | * |
| * | 16 | *150.0 | 187.5 | * | 0.400 | 0.385 | 1.315 | 0.325 | 0.390 | 0.605 | 0.405 | -0.410 | * |
| * | 17 | *155.0 | 193.8 | * | 0.560 | 0.360 | 1.415 | 0.345 | 0.390 | 0.715 | 0.450 | -0.425 | * |
| * | 18 | * 0.0 | 0.0 | * | 0.075 | 0.035 | 0.150 | 0.070 | 0.095 | 0.105 | 0.105 | -0.070 | * |
| * | 19 | * 0.0 | 0.0 | * | 0.000 | -0.035 | 0.030 | -0.030 | 0.020 | 0.010 | 0.000 | -0.105 | * |
| * | 21 | * 60.0 | 75.0 | * | 0.140 | 0.070 | 0.225 | 0.125 | 0.120 | 0.130 | 0.095 | -0.225 | * |
| * | 22 | * 80.0 | 100.0 | * | 0.230 | 0.160 | 0.295 | 0.190 | 0.185 | 0.245 | 0.170 | -0.255 | * |
| * | 24 | * 90.0 | 112.5 | * | 0.265 | 0.140 | 0.380 | 0.165 | 0.220 | 0.295 | 0.210 | -0.275 | * |
| * | 26 | *110.0 | 137.5 | * | 0.365 | 0.200 | 0.670 | 0.195 | 0.250 | 0.390 | 0.255 | -0.315 | * |
| * | 27 | *120.0 | 150.0 | * | 0.410 | 0.205 | 0.820 | 0.190 | 0.235 | 0.445 | 0.270 | -0.350 | * |
| * | 28 | *130.0 | 162.5 | * | 0.440 | 0.235 | 0.970 | 0.245 | 0.280 | 0.480 | 0.315 | -0.390 | * |
| * | 30 | *140.0 | 175.0 | * | 0.510 | 0.300 | 1.120 | 0.295 | 0.305 | 0.580 | 0.375 | -0.405 | * |
| * | 32 | *150.0 | 187.5 | * | 0.590 | 0.345 | 1.325 | 0.320 | 0.380 | 0.710 | 0.450 | -0.425 | * |
| * | 33 | *155.0 | 193.8 | * | 0.630 | 0.345 | 1.435 | 0.315 | 0.390 | 0.775 | 0.480 | -0.435 | * |
| * | 34 | *160.0 | 200.0 | * | 0.715 | 0.375 | 1.515 | 0.325 | 0.450 | 0.875 | 0.520 | -0.435 | * |
| ***** | | | | | | | | | | | | | |

VERSUCHSBALKEN R4

GEMESSENE BETONVERFORMUNGEN IN 0/00

* * *

* P H * BESZTELLE *

* LASTSTUFE * IN IN * *

* KH KNM * 41 42 43 44 45 46 47 48 *

* * *

* 55 *165.0 206.3 * 0.750 0.400 1.595 0.365 0.745 0.900 0.580 -0.470 *

* 36 *170.0 212.5 * 0.810 0.440 1.700 0.330 0.870 0.945 0.625 -0.490 *

VERSUCHSBALKEN R4

GEMESSENE BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | | | |
|-------|-----------|--------|-------|---|------------|--------|--------|--------|--------|--------|--------|--------|---|
| ***** | | | | | | | | | | | | | |
| * | * | * | | | | | | | | | | * | |
| * | * | P | M | * | MESZSTELLE | | | | | | | | * |
| * | LASTSTUFE | IN | IN | * | | | | | | | | | * |
| * | * | KN | KNM | * | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | * |
| * | * | * | * | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | | |
| * | 1 | * 0.0 | 0.0 | * | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 4 | * 60.0 | 75.0 | * | -0.135 | -0.120 | -0.115 | -0.175 | -0.095 | -0.135 | -0.125 | -0.100 | * |
| * | 5 | * 80.0 | 100.0 | * | -0.190 | -0.180 | -0.160 | -0.250 | -0.130 | -0.190 | -0.190 | -0.165 | * |
| * | 6 | * 85.0 | 106.3 | * | -0.215 | -0.195 | -0.190 | -0.285 | -0.150 | -0.215 | -0.200 | -0.185 | * |
| * | 7 | * 90.0 | 112.5 | * | -0.215 | -0.200 | -0.190 | -0.275 | -0.150 | -0.200 | -0.205 | -0.195 | * |
| * | 8 | *100.0 | 125.0 | * | -0.260 | -0.220 | -0.205 | -0.310 | -0.190 | -0.250 | -0.230 | -0.225 | * |
| * | 9 | *110.0 | 137.5 | * | -0.295 | -0.255 | -0.255 | -0.360 | -0.230 | -0.275 | -0.245 | -0.250 | * |
| * | 10 | *120.0 | 150.0 | * | -0.360 | -0.350 | -0.340 | -0.460 | -0.295 | -0.355 | -0.330 | -0.325 | * |
| * | 11 | *125.0 | 156.3 | * | -0.350 | -0.315 | -0.325 | -0.425 | -0.290 | -0.340 | -0.295 | -0.305 | * |
| * | 12 | *130.0 | 162.5 | * | -0.360 | -0.350 | -0.350 | -0.445 | -0.305 | -0.370 | -0.335 | -0.320 | * |
| * | 14 | *140.0 | 175.0 | * | -0.380 | -0.385 | -0.385 | -0.490 | -0.325 | -0.400 | -0.360 | -0.350 | * |
| * | 16 | *150.0 | 187.5 | * | -0.423 | -0.428 | -0.422 | -0.530 | -0.358 | -0.447 | -0.407 | -0.387 | * |
| * | 17 | *155.0 | 193.8 | * | -0.445 | -0.450 | -0.440 | -0.550 | -0.375 | -0.470 | -0.430 | -0.405 | * |
| * | 18 | * 0.0 | 0.0 | * | -0.050 | -0.060 | -0.055 | -0.100 | -0.020 | -0.050 | -0.040 | -0.055 | * |
| * | 19 | * 0.0 | 0.0 | * | -0.090 | -0.095 | -0.100 | -0.165 | -0.060 | -0.105 | -0.095 | -0.095 | * |
| * | 21 | * 60.0 | 75.0 | * | -0.210 | -0.220 | -0.220 | -0.330 | -0.175 | -0.240 | -0.215 | -0.215 | * |
| * | 22 | * 80.0 | 100.0 | * | -0.285 | -0.280 | -0.255 | -0.375 | -0.210 | -0.280 | -0.230 | -0.245 | * |
| * | 24 | * 90.0 | 112.5 | * | -0.260 | -0.295 | -0.275 | -0.380 | -0.205 | -0.295 | -0.255 | -0.260 | * |
| * | 26 | *110.0 | 137.5 | * | -0.335 | -0.330 | -0.320 | -0.425 | -0.275 | -0.335 | -0.300 | -0.305 | * |
| * | 27 | *120.0 | 150.0 | * | -0.380 | -0.365 | -0.365 | -0.475 | -0.300 | -0.390 | -0.350 | -0.340 | * |
| * | 28 | *130.0 | 162.5 | * | -0.420 | -0.390 | -0.410 | -0.515 | -0.335 | -0.425 | -0.380 | 0.000 | * |
| * | 30 | *140.0 | 175.0 | * | -0.435 | -0.430 | -0.425 | -0.535 | -0.385 | -0.455 | -0.415 | -0.395 | * |
| * | 32 | *150.0 | 187.5 | * | -0.445 | -0.450 | -0.455 | -0.570 | -0.380 | -0.475 | -0.435 | -0.420 | * |
| * | 33 | *155.0 | 193.8 | * | -0.500 | -0.475 | -0.490 | -0.585 | -0.420 | -0.495 | -0.455 | -0.440 | * |
| * | 34 | *160.0 | 200.0 | * | -0.495 | -0.495 | -0.500 | -0.595 | -0.420 | -0.505 | -0.465 | -0.445 | * |
| ***** | | | | | | | | | | | | | |

VERSUCHSBALKEN R4

GENESSENE BETONVERFORMUNGEN IN 0/00

| | | | | | | | | | | | | | |
|-------|-----------|--------|-------|---------|------------|--------|--------|--------|--------|--------|--------|----|---|
| ***** | | | | | | | | | | | | | |
| * | * | | * | | | | | | | | | | * |
| * | * | P | M | * | MESZSTELLE | | | | | | | | * |
| * | LASTSTUFE | * | IN | IN | * | | | | | | | | * |
| * | * | KN | KNH | * | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | * |
| * | * | | | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | | |
| * | 35 | *165.0 | 206.3 | *-0.535 | -0.520 | -0.520 | -0.615 | -0.445 | -0.535 | -0.490 | -0.485 | * | |
| * | 36 | *170.0 | 212.5 | *-0.540 | -0.530 | -0.540 | -0.635 | -0.455 | -0.550 | -0.510 | -0.505 | * | |
| ***** | | | | | | | | | | | | | |

VERSUCHSBALKEN R4

GEMESSENE RISSBREITEN IN MM

| * | * | * | * | MESSSTELLE | | | | | | | | * |
|-------------|------|--------|-------|------------|-------|-------|-------|-------|-------|-------|-------|---|
| * | * P | M | * | | | | | | | | | * |
| * LASTSTUFE | * IN | IN | * | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | * |
| * | * KN | KNM | * | | | | | | | | | * |
| ***** | | | | | | | | | | | | |
| * | 14 | *140.0 | 175.0 | * 0.100 | 0.030 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * |
| * | 15 | *145.0 | 181.3 | * 0.180 | 0.030 | 0.020 | 0.030 | 0.020 | 0.010 | 0.060 | 0.000 | * |
| * | 16 | *150.0 | 187.5 | * 0.180 | 0.040 | 0.030 | 0.040 | 0.020 | 0.020 | 0.070 | 0.080 | * |
| * | 17 | *155.0 | 193.8 | * 0.240 | 0.040 | 0.030 | 0.040 | 0.040 | 0.030 | 0.080 | 0.080 | * |
| * | 28 | *130.0 | 162.5 | * 0.140 | 0.040 | 0.030 | 0.030 | 0.020 | 0.020 | 0.050 | 0.060 | * |
| * | 29 | *135.0 | 168.8 | * 0.240 | 0.040 | 0.030 | 0.040 | 0.040 | 0.020 | 0.060 | 0.080 | * |
| * | 30 | *140.0 | 175.0 | * 0.260 | 0.040 | 0.030 | 0.040 | 0.040 | 0.040 | 0.070 | 0.070 | * |
| * | 31 | *145.0 | 181.3 | * 0.280 | 0.040 | 0.040 | 0.050 | 0.050 | 0.040 | 0.100 | 0.080 | * |
| * | 32 | *150.0 | 187.5 | * 0.300 | 0.040 | 0.040 | 0.050 | 0.050 | 0.060 | 0.100 | 0.080 | * |
| * | 33 | *155.0 | 193.8 | * 0.340 | 0.040 | 0.040 | 0.050 | 0.050 | 0.060 | 0.100 | 0.100 | * |
| * | 34 | *160.0 | 200.0 | * 0.360 | 0.050 | 0.050 | 0.060 | 0.060 | 0.060 | 0.110 | 0.100 | * |
| * | 35 | *165.0 | 206.3 | * 0.380 | 0.040 | 0.050 | 0.060 | 0.060 | 0.070 | 0.110 | 0.100 | * |
| * | 36 | *170.0 | 212.5 | * 0.420 | 0.050 | 0.050 | 0.050 | 0.060 | 0.070 | 0.110 | 0.100 | * |
| * | 38 | *180.0 | 225.0 | * 0.460 | 0.050 | 0.050 | 0.050 | 0.060 | 0.080 | 0.140 | 0.120 | * |
| ***** | | | | | | | | | | | | |

VERSUCHSBALKEN R4

GEMESSENE RISSBREITEN IN MM

| * LASTSTUFE | * P | * H | * IN | * KNM | * 9 | * 10 | * 11 | * 12 | * 13 | * 14 | * 15 | * 16 | * MESZSTELLE |
|-------------|-----|-----|------|-------|-----|------|------|------|------|------|------|------|--------------|
|-------------|-----|-----|------|-------|-----|------|------|------|------|------|------|------|--------------|

| | | | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| * 14 | *140.0 | 175.0 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * 0.000 |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|

| | | | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| * 15 | *145.0 | 181.3 | * 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | * 0.000 |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|

| | | | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| * 16 | *150.0 | 187.5 | * 0.040 | 0.020 | 0.010 | 0.030 | 0.020 | 0.030 | 0.030 | 0.030 | 0.040 | 0.040 | * 0.040 |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|

| | | | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| * 17 | *155.0 | 193.8 | * 0.040 | 0.050 | 0.040 | 0.040 | 0.020 | 0.040 | 0.030 | 0.030 | 0.120 | 0.120 | * 0.120 |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|

| | | | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| * 28 | *130.0 | 162.5 | * 0.040 | 0.040 | 0.040 | 0.050 | 0.030 | 0.040 | 0.030 | 0.030 | 0.070 | 0.070 | * 0.070 |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|

| | | | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| * 29 | *135.0 | 168.8 | * 0.060 | 0.050 | 0.050 | 0.050 | 0.040 | 0.050 | 0.030 | 0.030 | 0.070 | 0.070 | * 0.070 |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|

| | | | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| * 30 | *140.0 | 175.0 | * 0.060 | 0.050 | 0.050 | 0.050 | 0.040 | 0.050 | 0.040 | 0.040 | 0.080 | 0.080 | * 0.080 |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|

| | | | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| * 31 | *145.0 | 181.3 | * 0.060 | 0.060 | 0.050 | 0.050 | 0.040 | 0.060 | 0.040 | 0.040 | 0.090 | 0.090 | * 0.090 |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|

| | | | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| * 32 | *150.0 | 187.5 | * 0.060 | 0.060 | 0.050 | 0.060 | 0.060 | 0.060 | 0.080 | 0.050 | 0.100 | 0.100 | * 0.100 |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|

| | | | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| * 33 | *155.0 | 193.8 | * 0.070 | 0.080 | 0.060 | 0.060 | 0.060 | 0.060 | 0.080 | 0.050 | 0.120 | 0.120 | * 0.120 |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|

| | | | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| * 34 | *160.0 | 200.0 | * 0.070 | 0.080 | 0.060 | 0.060 | 0.060 | 0.060 | 0.080 | 0.050 | 0.120 | 0.120 | * 0.120 |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|

| | | | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| * 35 | *165.0 | 206.3 | * 0.080 | 0.080 | 0.060 | 0.060 | 0.060 | 0.060 | 0.060 | 0.060 | 0.120 | 0.120 | * 0.120 |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|

| | | | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| * 36 | *170.0 | 212.5 | * 0.080 | 0.080 | 0.060 | 0.070 | 0.060 | 0.070 | 0.070 | 0.070 | 0.120 | 0.120 | * 0.120 |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|

| | | | | | | | | | | | | | |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| * 38 | *180.0 | 225.0 | * 0.140 | 0.080 | 0.060 | 0.080 | 0.060 | 0.080 | 0.080 | 0.080 | 0.140 | 0.140 | * 0.140 |
|------|--------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|

VERSUCHSBALKEN R4

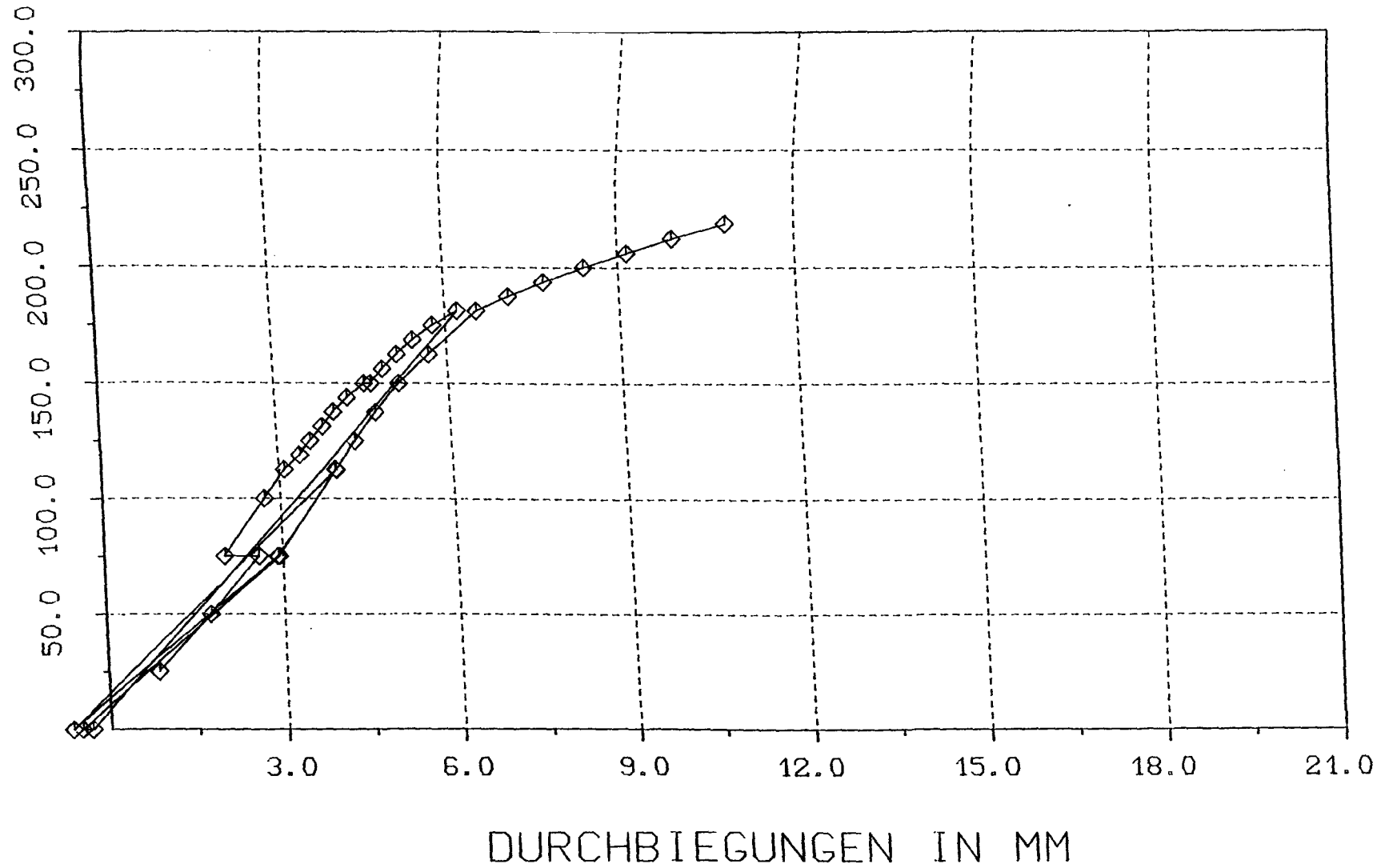
GEMESSENE RISSBREITEN IN MM

| * LASTSTUFE | * P | * M | * MESZSTELLE | * RISSBREITE | * RISSBREITE |
|-------------|------|------|--------------|--------------|--------------|
| * KN | * KN | * KN | * 17 | * 18 | |

| | | | | | |
|------|--------|--------|---------|---------|---------|
| * 14 | *140.0 | *175.0 | * 0.000 | * 0.000 | * 0.000 |
| * 15 | *145.0 | *181.3 | * 0.000 | * 0.000 | * 0.000 |
| * 16 | *150.0 | *187.5 | * 0.000 | * 0.000 | * 0.000 |
| * 17 | *155.0 | *193.8 | * 0.000 | * 0.000 | * 0.000 |
| * 28 | *130.0 | *162.5 | * 0.000 | * 0.000 | * 0.000 |
| * 29 | *135.0 | *168.8 | * 0.000 | * 0.000 | * 0.000 |
| * 30 | *140.0 | *175.0 | * 0.000 | * 0.000 | * 0.000 |
| * 31 | *145.0 | *181.3 | * 0.050 | * 0.000 | * 0.000 |
| * 32 | *150.0 | *187.5 | * 0.060 | * 0.000 | * 0.000 |
| * 33 | *155.0 | *193.8 | * 0.070 | * 0.000 | * 0.000 |
| * 34 | *160.0 | *200.0 | * 0.090 | * 0.000 | * 0.000 |
| * 35 | *165.0 | *206.3 | * 0.090 | * 0.040 | * 0.000 |
| * 36 | *170.0 | *212.5 | * 0.090 | * 0.060 | * 0.000 |
| * 38 | *180.0 | *225.0 | * 0.120 | * 0.080 | * 0.000 |

BIEGEMOMENT M IN KNM

◇ = MESZSTELLE 6

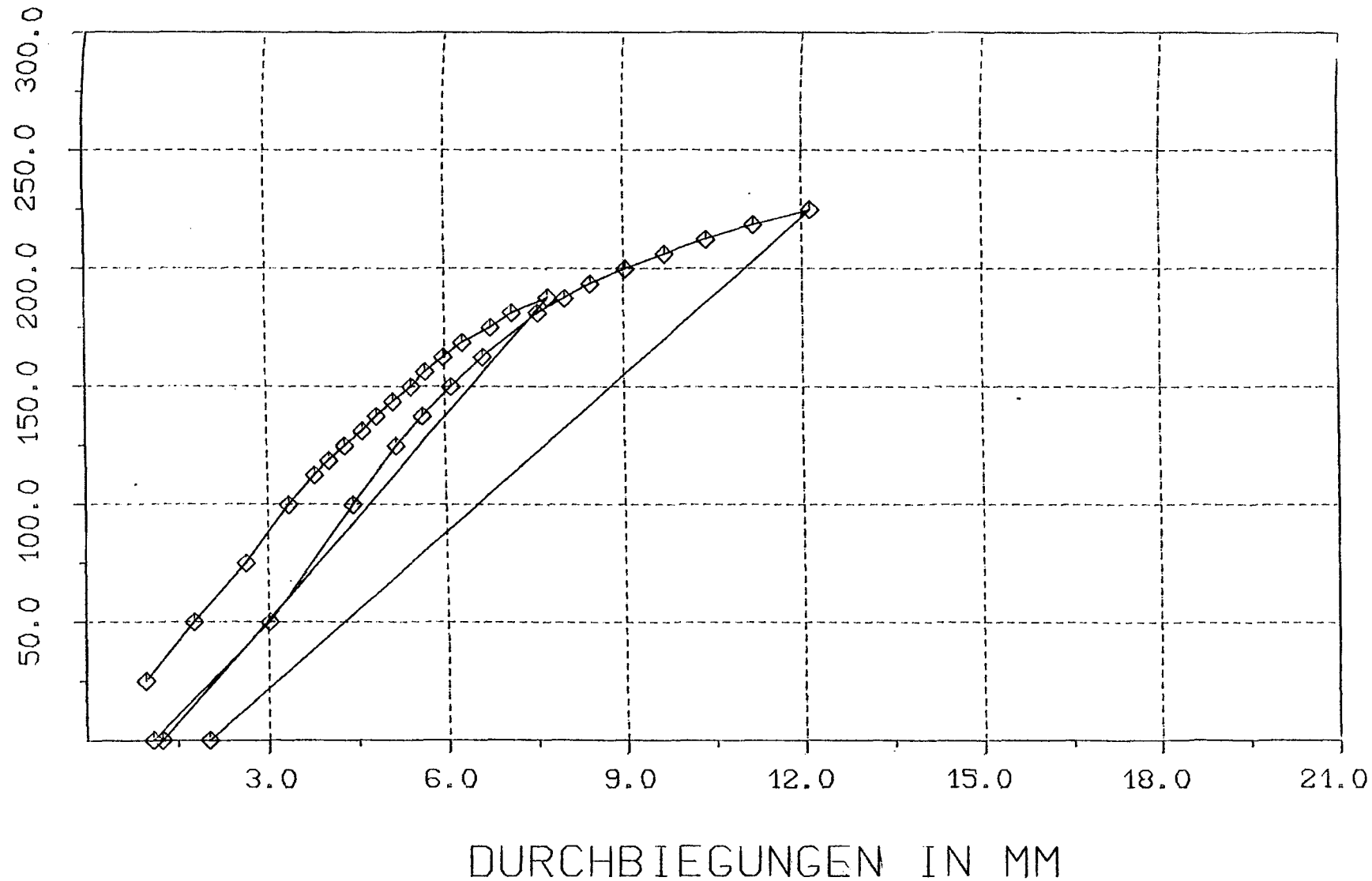


ANLAGE

VERSUCHSBALKEN R1
B25 BST 420/500
ST825/1030 GLATT

BIEGEMOMENT M IN KNM

◇ = MESZSTELLE 6

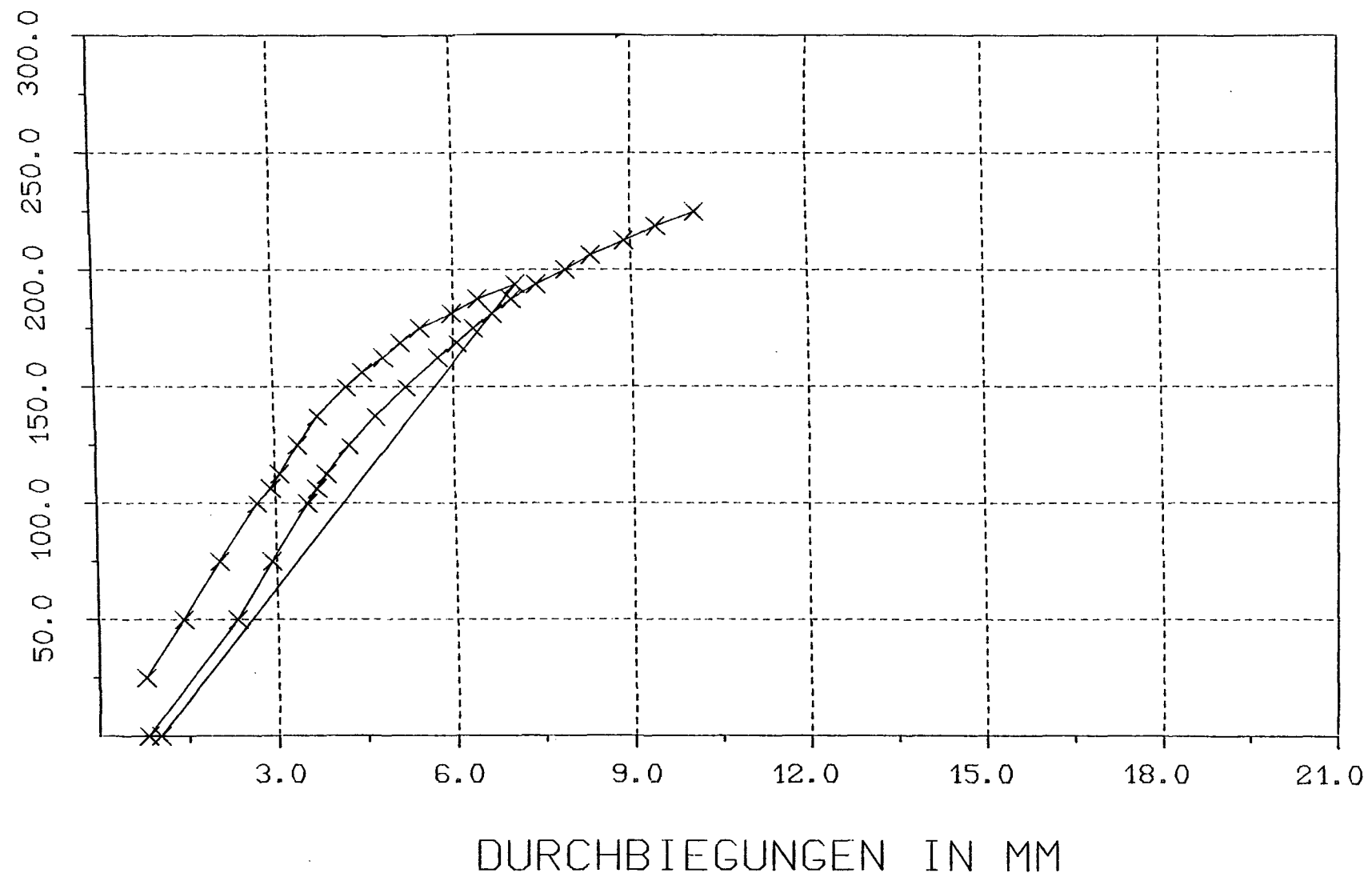


ANLAGE

VERSUCHSBALKEN R2
B25 BST 420/500
ST825/1030 GEWINDESTAHL

BIEGEMOMENT M IN KNM

x = MESZSTELLE 6

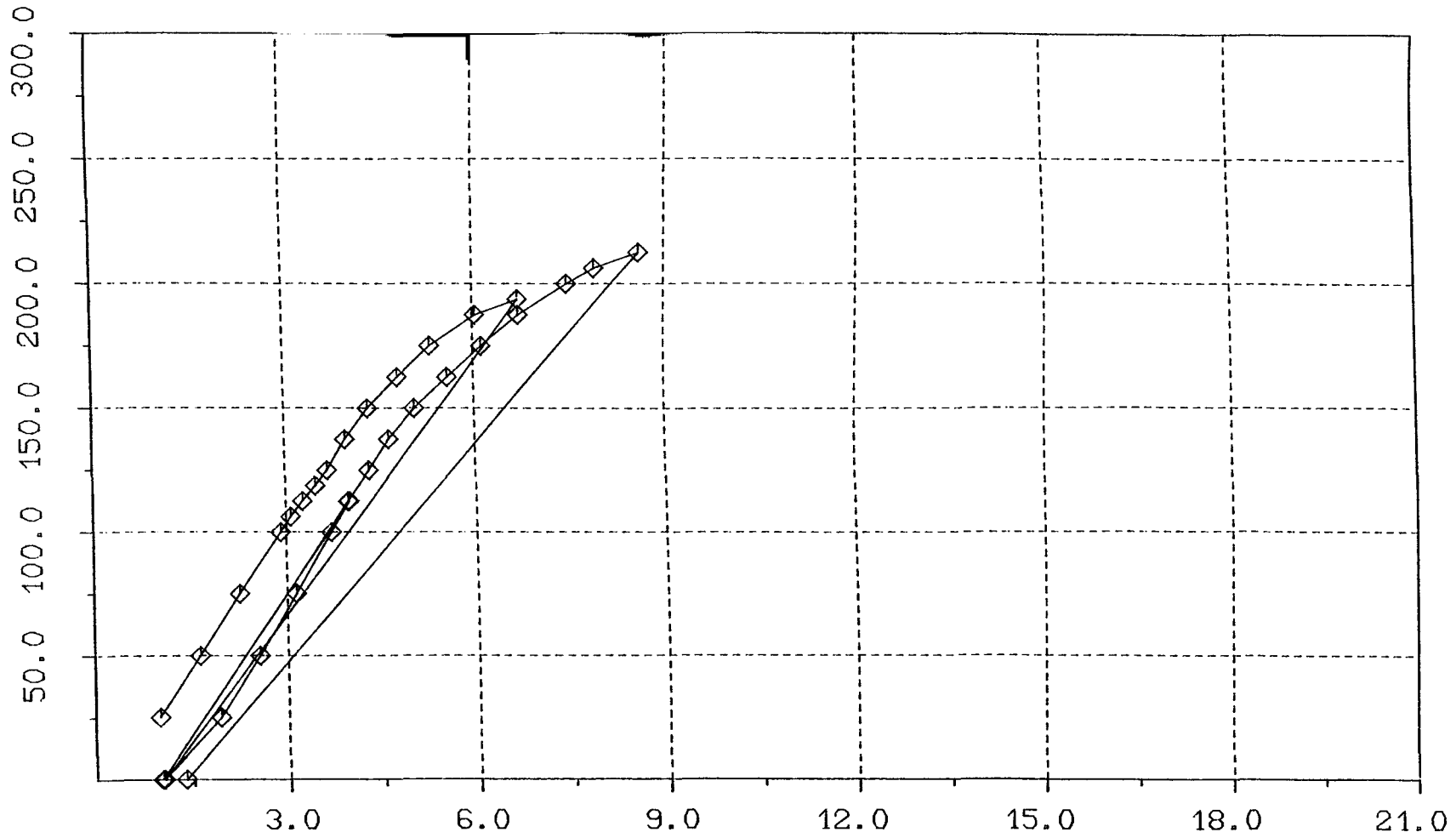


VERSUCHSBALKEN R4
B25 BST 420/500
ST825/1030 GEWINDESTAHL

ANLAGE

BIEGEMOMENT M IN KNM

◇ = MESZSTELLE 6



DURCHBIEGUNGEN IN MM

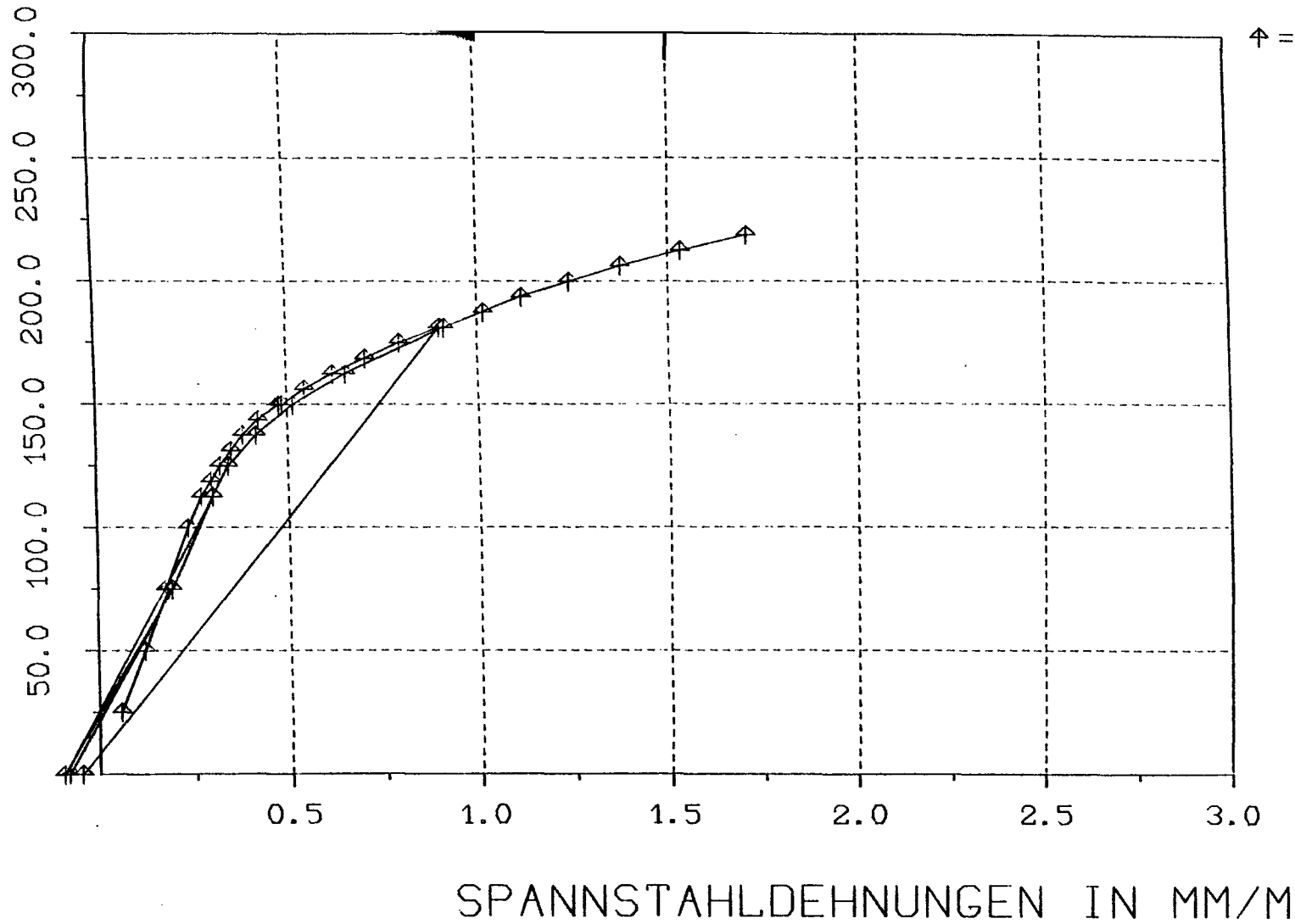
VERSUCHSBALKEN R3

B25 BST 420/500

ST825/1030 GLATT

ANLAGE

BIEGEMOMENT M IN KNM

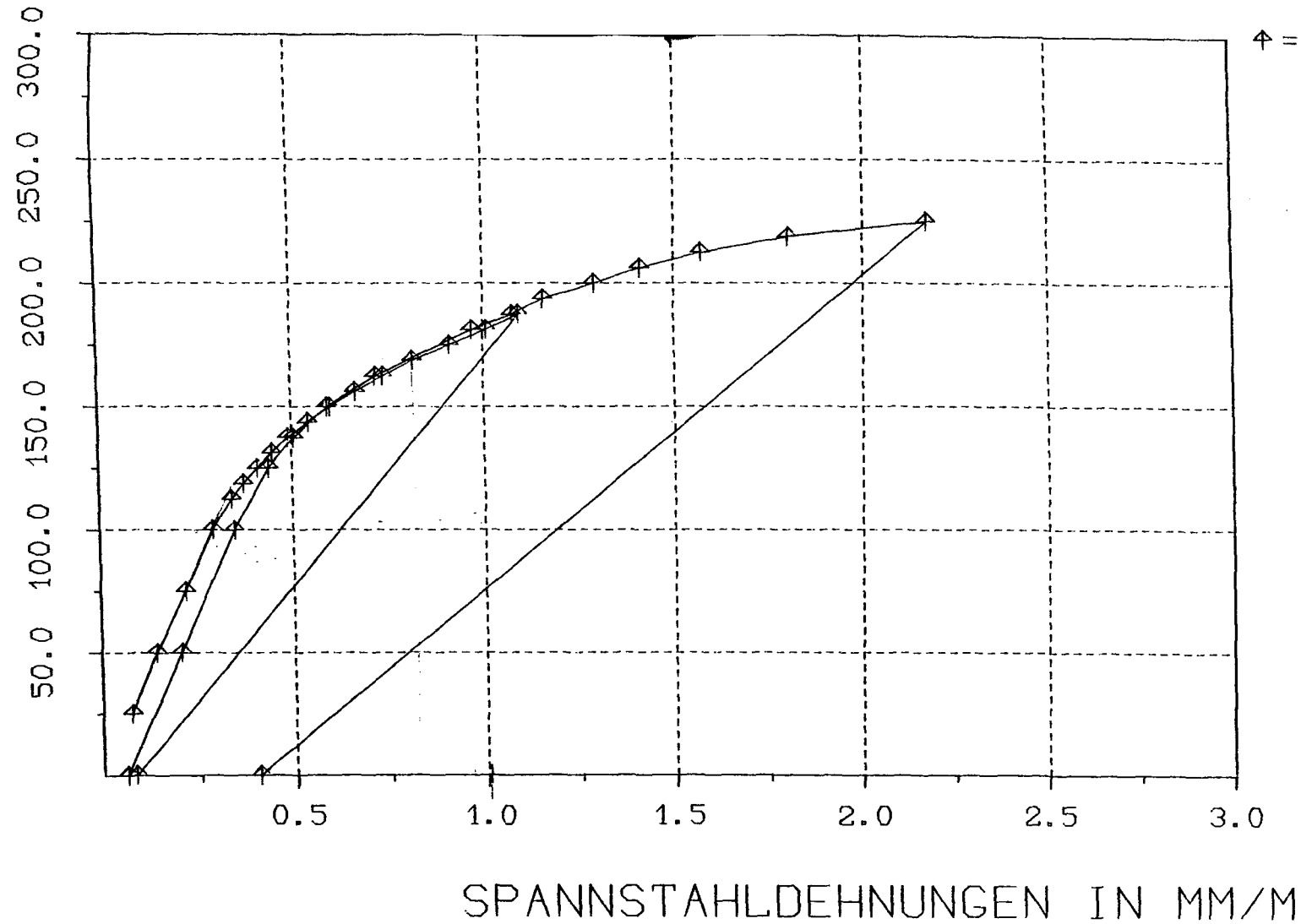


△ = MESZSTELLE 13

VERSUCHSBALKEN R1
B25 BST 420/500
ST 825/1030 GLATT

ANLAGE

BIEGEMOMENT M IN KNM

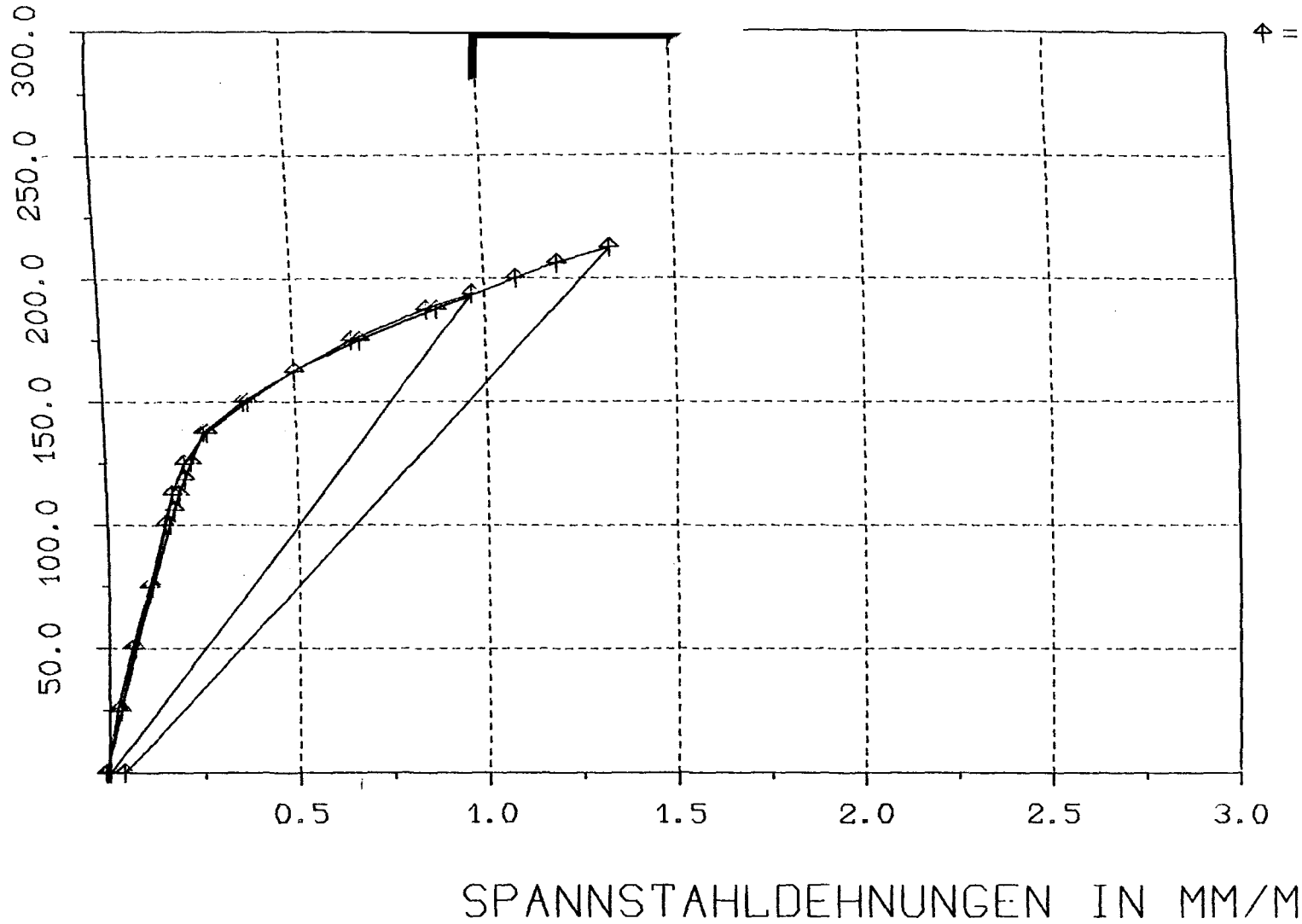


△ = MESZSTELLE 13

VERSUCHSBALKEN R2
B25 · BST 420/500
ST 825/1030 GEWINDESTAHL

ANLAGE

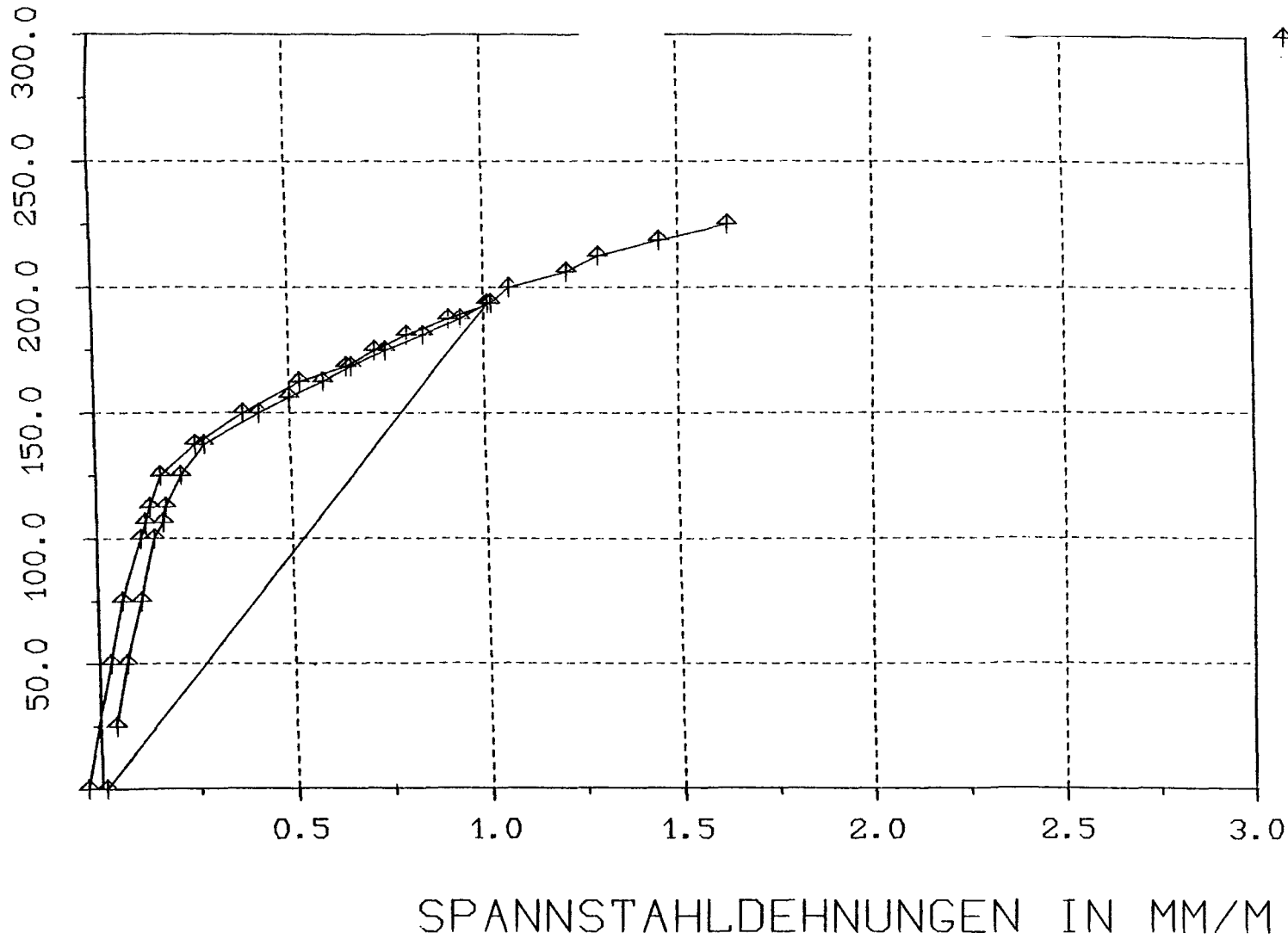
BIEGEMOMENT M IN KNM



VERSUCHSBALKEN R3
B25 BST 420/500
ST 825/1030 GLATT

ANLAGE

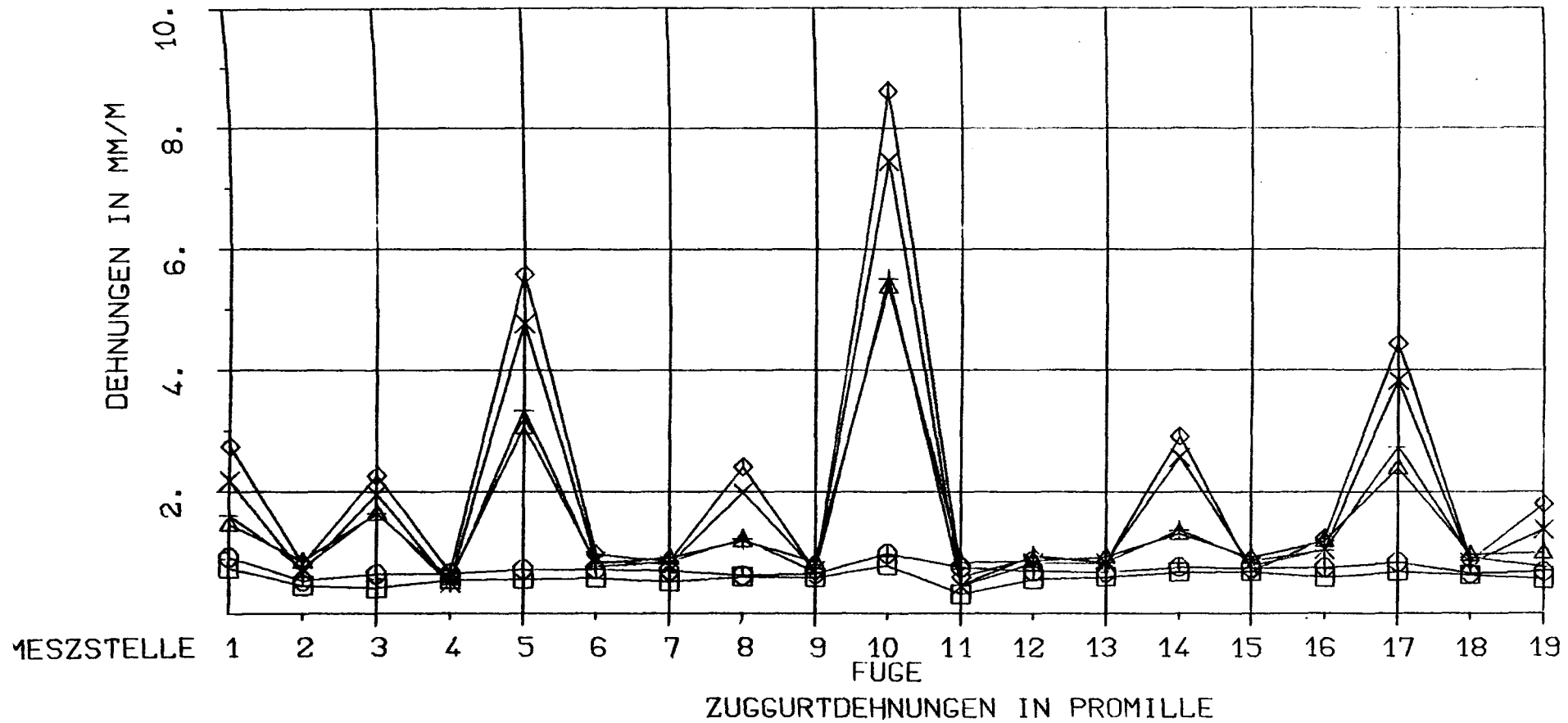
BIEGEMOMENT M IN KNM



ANLAGE

VERSUCHSBALKEN R4
B25 .BST 420/500
ST825/1030 GEWINDESTAHL

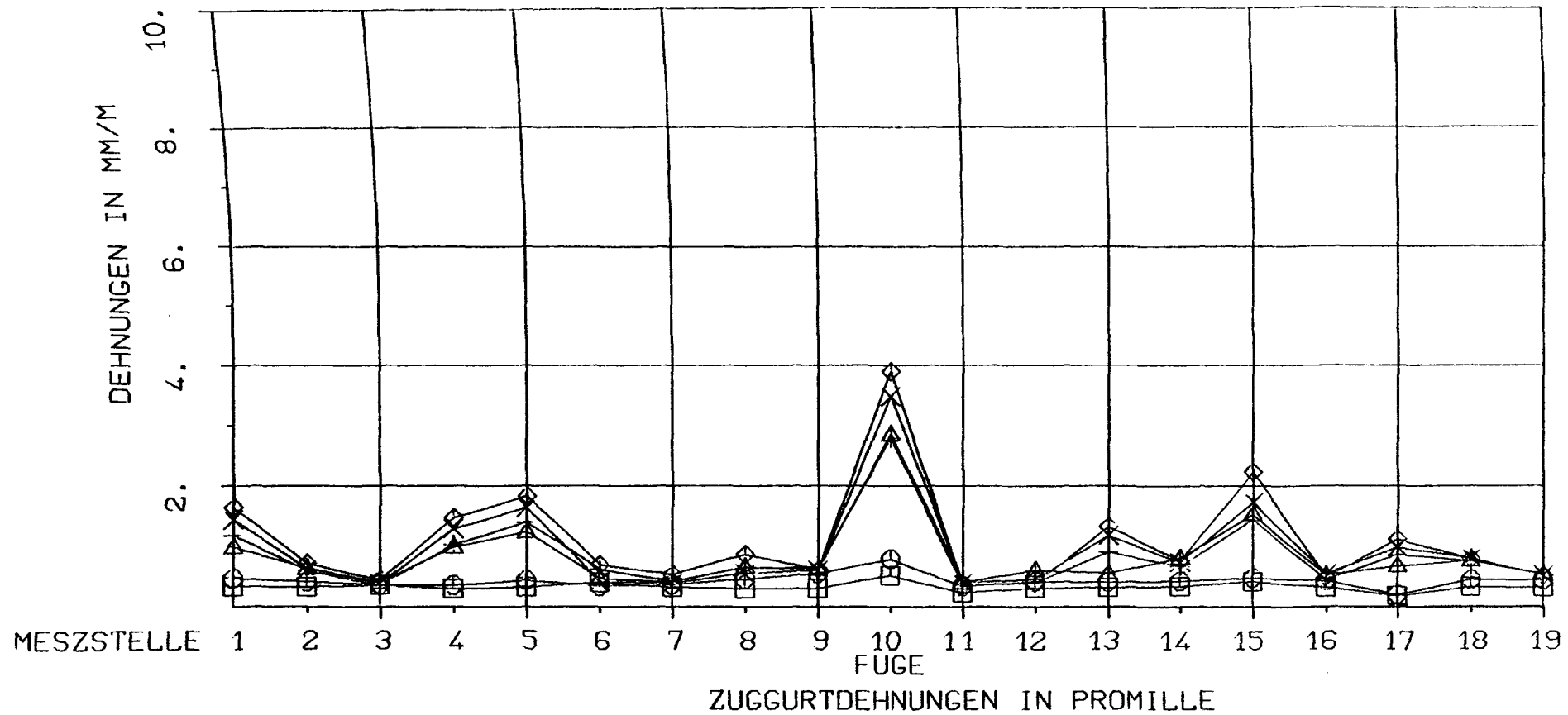
□ = LS 7, M= 112.5 KNM
 ○ = LS 10, M= 131.3 KNM
 △ = LS 19, M= 181.3 KNM
 + = LS 31, M= 181.3 KNM
 X = LS 33, M= 193.8 KNM
 ◇ = LS 34, M= 200.0 KNM



ANLAGE

VERSUCHSBALKEN R1
 B35 BST 420/500
 ST825/1030 GLATT

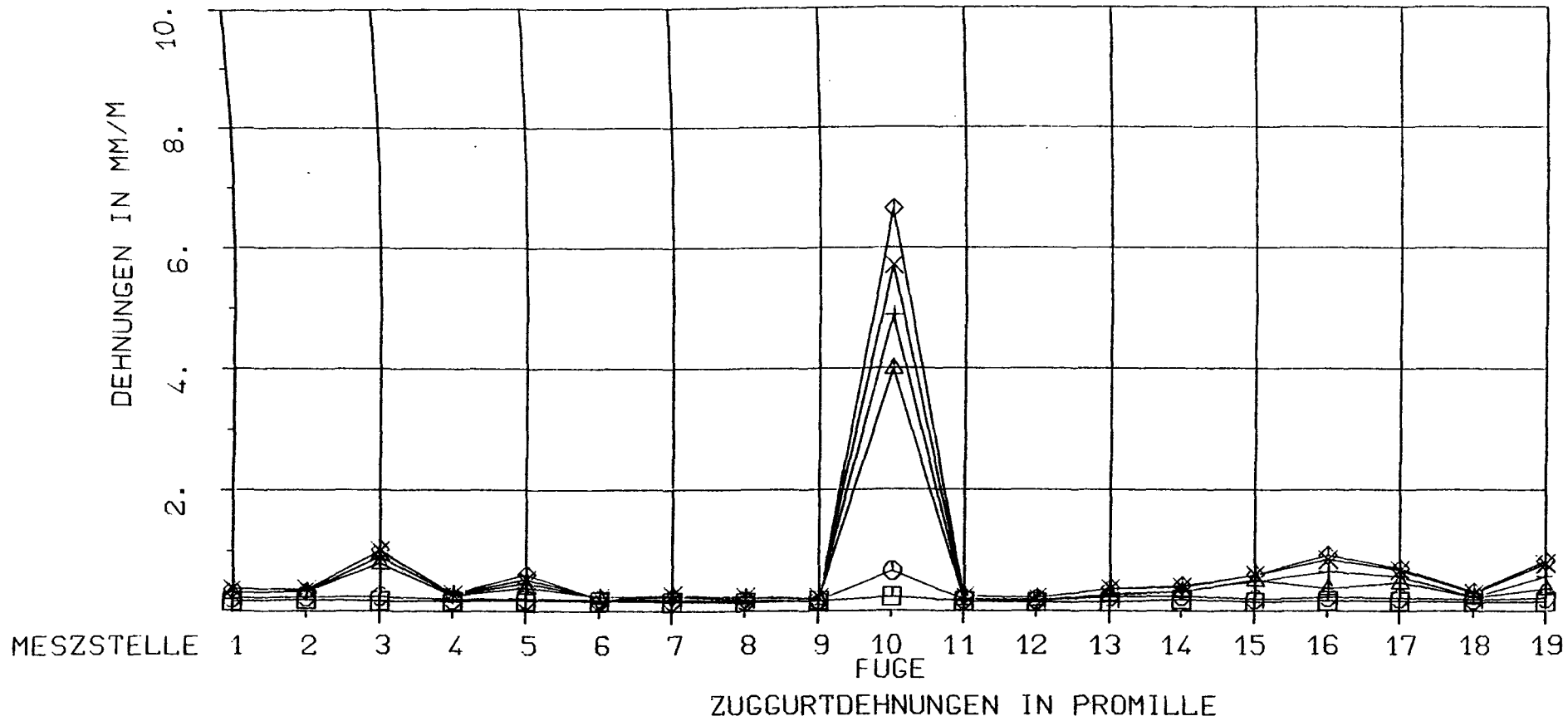
- = LS 6, M = 112.5 KNM
- = LS 9, M = 131.3 KNM
- △ = LS 17, M = 175.0 KNM
- ⊕ = LS 27, M = 181.3 KNM
- × = LS 29, M = 193.8 KNM
- ◇ = LS 30, M = 200.0 KNM



ANLAGE

VERSUCHSBALKEN R2
 B35 BST 420/500
 ST825/1030 GEWINDESTAHL

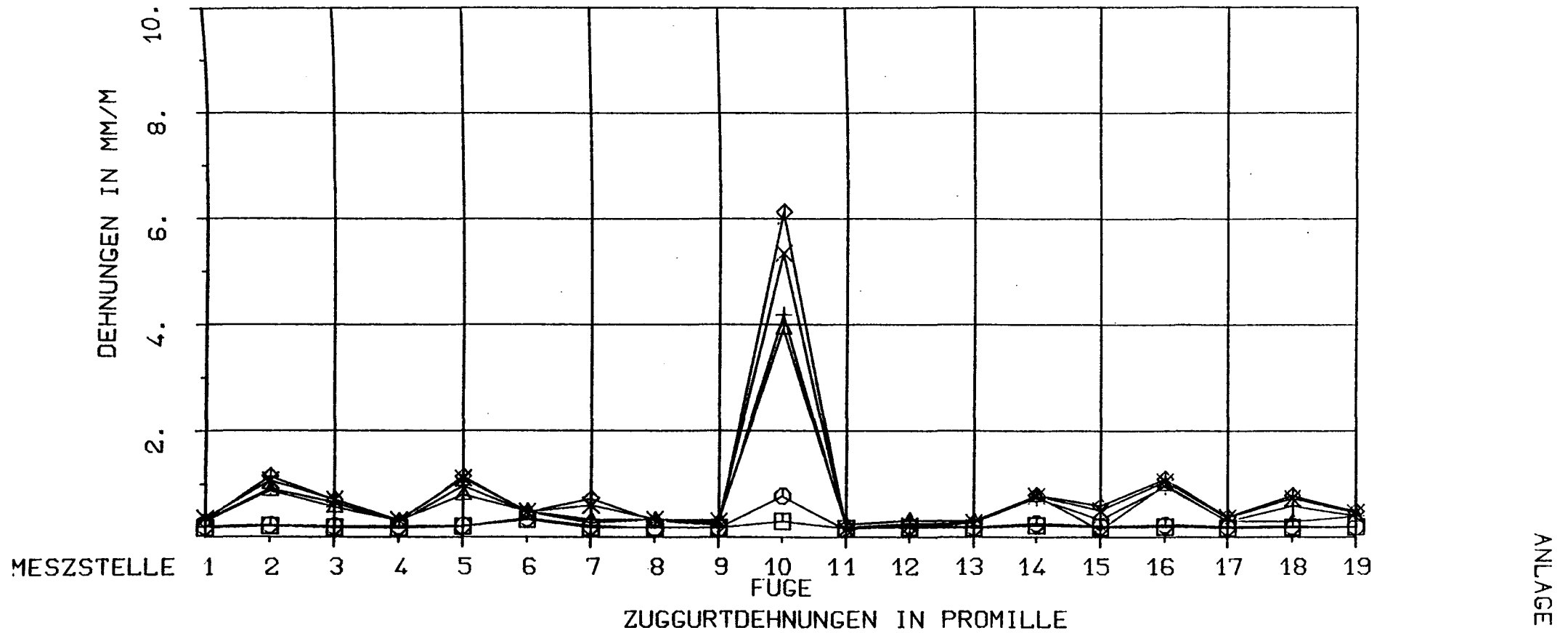
- = LS 7, M= 112.5 KNM
- = LS 10, M= 137.5 KNM
- △ = LS 14, M= 187.5 KNM
- + = LS 30, M= 187.5 KNM
- X = LS 31, M= 200.0 KNM
- ◇ = LS 32, M= 206.3 KNM



ANLAGE

VERSUCHSBALKEN R3
B35 BST 420/500
STB25/1030 GLATT

- = LS 5, M= 112.5 KNM
- = LS 7, M= 137.5 KNM
- △ = LS 12, M= 187.5 KNM
- + = LS 23, M= 187.5 KNM
- X = LS 25, M= 200.0 KNM
- ◇ = LS 26, M= 206.3 KNM



VERSUCHSBALKEN R4
 B35 BST 420/500
 ST825/1030 GEWINDESTAHL

30-0070/1-002

10. Juni 1983